REPORT ON THE TWENTY-FOURTH REGULAR
ACTUARIAL VALUATION AND THE
JUNE 30, 2007 AND JUNE 30, 2008
FORECAST VALUATIONS OF THE
NEW HAMPSHIRE RETIREMENT SYSTEM
PREPARED AS OF JUNE 30, 2005

V00024JC.DOC





January 18, 2006

Board of Trustees New Hampshire Retirement System 4 Chenell Drive Concord, New Hampshire 03301-8509

#### Ladies and Gentlemen:

RSA 100-A:14, Paragraph X, of the law governing the New Hampshire Retirement System provides in part that the actuary is to make periodic valuations of the contingent assets and liabilities of the funds of the retirement system.

The twenty-fourth regular actuarial valuation of the system, prepared as of June 30, 2005, has now been completed and the results are presented in this report, along with the results of the June 30, 2007 and June 30, 2008 forecast valuations.

The valuations were based on the open group aggregate funding method required under RSA 100:A-16 as revised in 1992 and on revised long-term actuarial assumptions adopted by the Board of Trustees in 2005 and which are discussed in Section IV. In addition, the new entrant distributions were modified to reflect recent experience and the overall workforce size assumptions and future salaries were modified to reflect anticipated future experience through the projection period. These assumptions project zero population growth for Employees, Teachers, Policemen and Firemen and no excess salary increases.

The Board of Trustees in September, 2004 adopted revised target funding assumptions. The target funding goal is based on a funding target of 115% over a 30 year time horizon using an 8% interest rate to value liabilities. The Board of Trustees in October, 2005 adopted revised demographic assumptions for all membership classifications. Also, the Board of Trustees in November, 2005 adopted to decrease the interest rate assumption from 9.0% to 8.5%.

The valuation and the forecast valuations reflect various amendments effective since June 30, 2003. The more significant changes, in brief, provide certain cost-of-living increases and provides postretirement medical coverage for certain policemen and firemen members. Please refer to Section I of the report for an outline of all pertinent legislation.

Board of Trustees February 23, 2006 Page 2

The Table of Contents, which immediately follows, outlines the material contained in the report.

Respectfully submitted,

(Signed) JANET H. CRANNA

Janet H. Cranna Principal, Consulting Actuary

(Signed) DANA E. SPANGHER

Dana E. Spangher



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# REPORT ON THE TWENTY-FOURTH REGULAR ACTUARIAL VALUATION AND THE JUNE 30, 2007 AND JUNE 30, 2008 FORECAST VALUATIONS OF THE NEW HAMPSHIRE RETIREMENT SYSTEM PREPARED AS OF JUNE 30, 2005 SECTION I - SUMMARY OF PRINCIPAL RESULTS

1. For convenience of reference, the principal results of the current and preceding regular valuations ar summarized below:

#### GROUP I

ITEM		EMPL	ΟY	EES	TEACHERS			
Valuation Date		6/30/2005		6/30/2004#	6/30/2005		6/30/2004#	
Number of active members		26,414		26,371	18,474		18,710	
Annual compensation*	\$	879,418,641	\$	842,028,902 ##	\$ 851,663,813	\$	826,821,630 ##	
Average compensation		33,294		31,930	46,101		44,191	
Number of inactives**		5,931		3,462	3,416		2,233	
Number of beneficiaries on the roll Annual allowances	\$	9,973 100,859,386	\$	9,092 85,067,325	\$ 5,904 108,893,782	\$	5,127 87,580,043	
Number of vested terminated members		286		312	299		300	
Total assets Special Account value	\$	1,230,417,125 89,544,458	\$	1,216,559,401 96,241,440	\$ 1,592,168,736 111,459,505	\$	1,594,677,790 119,071,116	
Net assets for valuation <sup>øø</sup>	\$	1,140,872,667	\$	1,120,317,961	\$ 1,480,709,231	\$	1,475,606,674	
Normal contribution rate: State Employing subdivisions Total		- - 7.71 % <sup>ø</sup>		- - 6.37 % <sup>ø</sup>	2.73 % 5.06 7.79 %		1.83 % 3.41 5.24 %	
Target contribution rate: State Employing subdivisions Total		- - 8.74 % <sup>ø</sup>		- - 6.81 % <sup>ø</sup>	3.13 % 5.80 8.93 %		2.00 % 3.70 5.70 %	
Unfunded accrued liability payments:								
State	\$	0	\$	0	\$ 0	\$	56,619	
Employing subdivision: Total	\$	4,150 4,150	\$	4,738 4,738	\$ 0	\$	<u>0</u> 56,619	

<sup>\*</sup> Compensation earned in the year ending on the valuation date.

<sup>\*\*</sup> Includes those members who were reported as inactive as well as those members who were reported as active but did not have any compensation reported for the last two fiscal years.

<sup>&</sup>lt;sup>ø</sup> Applicable to compensation of each employer's participating employees.

<sup>&</sup>lt;sup>øø</sup> Includes receivable contributions.

<sup>&</sup>lt;sup>#</sup> Based on the June 30, 2004 interim valuation. Demographic data was based on June 30, 2003 valuation data. Asset information was as of June 30, 2004.

<sup>##</sup> Estimated.

**GROUP II** 

	POLICEMEN		FIREMEN				
Valuation Date		6/30/2005	6/30/2004#		6/30/2005		6/30/2004#
Number of active members		4,573	4,305		1,599		1,524
Annual compensation*	\$	221,456,367	\$ 206,651,567 ##	\$	91,029,441	\$	83,083,449 ##
Average compensation		48,427	48,003		56,929		54,517
Number of inactives**		480	210		53		25
Number of beneficiaries on the roll Annual allowances	\$	2,012 55,788,083	\$ 1,787 47,406,412	\$	1,061 30,813,145	\$	999 26,601,881
Number of vested terminated members		29	23		3		4
Total assets Special Account value	\$	718,825,703 39,012,389	\$ 719,056,420 43,567,791	\$	372,157,229 38,279,399	\$	370,857,135 41,954,962
Net assets for valuation <sup>ø</sup>	\$	679,813,314	\$ 675,488,629	\$	333,877,830	\$	328,902,173
Normal contribution rate: State Employing subdivisions Total		5.86 % 10.88 16.74 %	4.62 % 8.58 13.20 %		6.39 % 11.88 18.27 %		6.01 % 11.16 17.17 %
Target contribution rate: State Employing subdivisions Total		6.37 % 11.84 18.21 %	5.22 % 9.68 14.90 %		8.57 % 15.92 24.49 %		7.73 % 14.36 22.09 %
Unfunded accrued liability payments: State Employing subdivisions	\$	0 0	\$ 261,971 0	\$	0 0	\$	140,360
Total	\$	0	\$ 261,971	\$	0	\$	140,360

<sup>\*</sup> Compensation earned in the year ending on the valuation date.

<sup>\*\*</sup> Includes those members who were reported as inactive as well as those members who were reported as active but did not have any compensation reported for the last two fiscal years.

<sup>&</sup>lt;sup>ø</sup> Includes receivable contributions.

<sup>&</sup>lt;sup>#</sup> Based on the June 30, 2004 interim valuation. Demographic data was based on June 30, 2003 valuation data. Asset information was as of June 30, 2004.

<sup>##</sup> Estimated.

- 2. Comments on the regular valuation results as of June 30, 2005 are given in Section V. Section VI presents the bases and results of the forecast valuations. Section VII discusses the contribution requirements for fiscal years 2008 and 2009 and Section VIII discusses the postretirement medical coverage valuation results.
- 3. The 2005 valuations were prepared on the basis of the open group aggregate funding method\*, a revised interest assumption of 8.50% compounded annually, revised actuarial assumptions for all membership classifications adopted in 2005 and revised short term projection assumptions as to workforce size, new entrant distributions and salary increases for all membership classifications. These assumptions and methods are discussed in Section IV. A summary of the actuarial assumptions for each membership classification is set forth in Schedule B along with a description of the various methods employed in the valuations.
- 4. The 2005 actuarial valuation and the forecast valuations reflect the following legislation which was enacted since July 1, 2003. Legislation was enacted in the 2004 legislative session which:
  - Chapter 146 (i) Extends the Group II 401(h) insurance subsidy to Group II employees who become members prior to July 1, 2005 and subsequently become disabled as the natural and proximate result of injuries suffered while in the performance of duty at any time in the future and (ii) Allows the Board of Trustees to recover the overpayment of benefits amounts which were paid after the death of a retiree or beneficiary or after the remarriage of a surviving spouse.
  - Chapter 216 Allows certain political subdivision members of the system to purchase prior service credit where the member participated in a local retirement plan, allows any system member who was making additional contributions prior to December 31, 2004 or who applied

<sup>\*</sup>Certain unfunded accrued liability charges are still assessed.

to make additional contributions prior to December 31, 2004 to continue to make additional contributions after December 31, 2004 and removes time frames for applications to purchase credit.

Chapter 51 - Provides for the accrual of and payment of a creditable service for system members
 who enter qualifying military service as defined in federal law and become reemployed.

Legislation was enacted in the 2005 legislative session which:

- Chapter 8 Establishes a committee to study the Special Account in the system and to propose the most appropriate way for increasing Special Account balances.
- Chapter 52 Reduces to two years the number of years of absence from service before a member is no longer a member and the member's accumulated contributions are returned.
- Chapter 53 Allows the system to be exempt from having to purchase supplies through the director of plant and property management.
- Chapter 43 Grants the Board of Trustees the powers, privileges and immunities of a corporation in managing the system.

In addition, as provided for Chapter 191 of the Laws of 1993, the following COLAs were granted during the 2004 and 2005 fiscal years:

a) A 1.0% COLA for employees, teachers and policemen and a 2.5% COLA for firemen who retired prior to July 1, 2003, effective July 1, 2004.

b) A 1.0% COLA for employees, teachers and policemen and a 1.5% COLA for firemen who retired prior to July 1, 2004, effective July 1, 2005.

Chapter 191 of the Laws of 1993 provides that on July 1, 1994 and each July 1 thereafter, any retired member who has been retired for at least two years will receive a COLA between 1% and 5% increments of ½% based on fiscal committee approval and subject to availability of funds in the Special Account. Chapter 287 of the Laws of 1998 extends COLA eligibility to members retired at least 12 months on their anniversary date and makes the COLA retroactive from July 1 to their anniversary date.

#### SECTION II - EMPLOYEE DATA

- 1. The valuation results are based on employee data furnished by the Executive Director of the Retirement System. Tables 1 to 8 of Schedule D show the distributions, by fifth age and service, of the total active members included in the valuation, while Tables 9 to 12 show details of the distribution, by fifth age, of the different categories of beneficiaries and dependents in receipt of benefits on the valuation date. Table 13 shows a reconciliation of the data from June 30, 2003 to June 30, 2005.
- 2. The following Table I and Graph I summarize the number and annual earnable compensation of active members as of June 30, 2005. Table II and Graph II, which follow, summarize the number and annual retirement allowances currently payable to beneficiaries on the roll as of June 30, 2005. In addition, there are 286 former employees, 299 former teachers, 29 former policemen and 3 former firemen entitled to deferred vested retirement allowances who were included in the valuation.

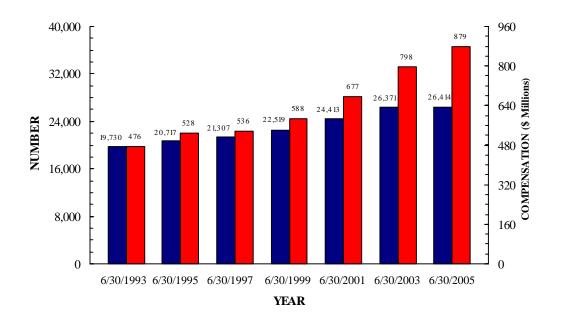
TABLE I

THE NUMBER AND ANNUAL EARNABLE COMPENSATION OF ACTIVE MEMBERS AS OF JUNE 30, 2005

GROUP	NUMBER	COMPENSATION		
Employees:				
State:				
Men	4,801	\$	190,407,667	
Women	6,293		211,322,867	
Subtotal	11,094	\$	401,730,534	
Political Subdivisions:				
Men	5,947	\$	224,142,168	
Women	9,373		253,545,939	
Subtotal	15,320	\$	477,688,107	
Total	26,414	\$	879,418,641	
Teachers:				
Men	4,462	\$	219,302,383	
Women	14,012		632,361,430	
Total	18,474	\$	851,663,813	
Policemen:				
Men	3,936	\$	195,437,811	
Women	637		26,018,556	
Total	4,573	\$	221,456,367	
Firemen:				
Men	1,548	\$	88,794,138	
Women	51		2,235,303	
Total	1,599	\$	91,029,441	
Grand Total	51,060	\$	2,043,568,262	

#### **NHRS EMPLOYEES**

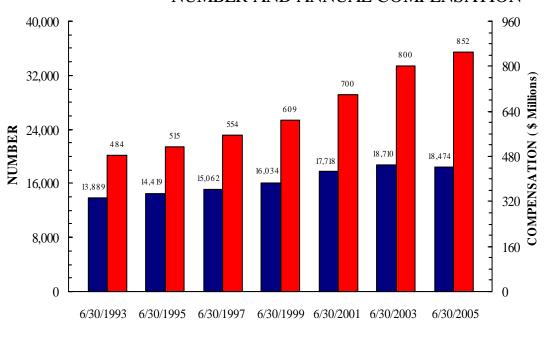
#### NUMBER AND ANNUAL COMPENSATION



■ COMPENSATION ■ MEMBERS

#### **NHRS TEACHERS**

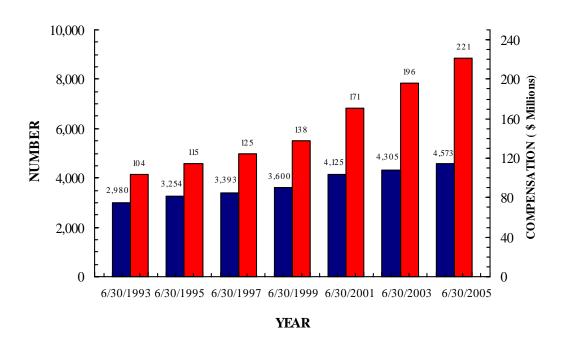
#### NUMBER AND ANNUAL COMPENSATION



■ COMPENSATION
■ MEMBERS

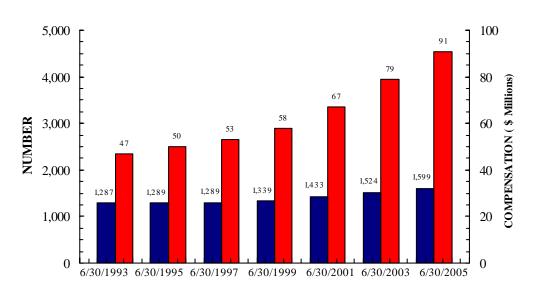
YEAR

### NHRS POLICEMEN NUMBER AND ANNUAL COMPENSATION





### NHRS FIREMEN NUMBER AND ANNUAL COMPENSATION





YEAR

TABLE II

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES
CURRENTLY PAYABLE TO BENEFICIARIES ON THE ROLL
AS OF JUNE 30, 2005

GROUP	NUMBER	ANNUAL RETIREMENT ALLOWANCES*
Service Retirements		
Employees:		
Men	3,922	\$ 48,792,387
Women	4,330	35,488,820
Subtotal	8,252	\$ 84,281,207
Teachers:		
Men	1,774	\$ 40,034,923
Women	3,695	62,329,452
Subtotal	5,469	\$ 102,364,375
Policemen:		
Men	1,292	\$ 41,303,637
Women	202	3,120,262
Subtotal	1,494	\$ 44,423,899
Firemen:		
Men	702	\$ 23,854,209
Women	42	575,895
vv omen	72	
Subtotal	744	\$ 24,430,104
<u>Disability Retirements</u> Employees:		
Men	364	\$ 4,392,086
Women	385	4,278,338
Subtotal	749	\$ 8,670,424
	713	0,070,121
Teachers:		
Men	48	\$ 826,224
Women	126	1,792,166
Subtotal	174	\$ 2,618,390
Policemen:		
Men	267	\$ 7,161,086
Women	29	706,185
Subtotal	296	\$ 7,867,271
Firemen:		
Men	125	\$ 3,154,692
Women	2	62,793
Subtotal	127	\$ 3,217,485

<sup>\*</sup>Includes COLA increases.

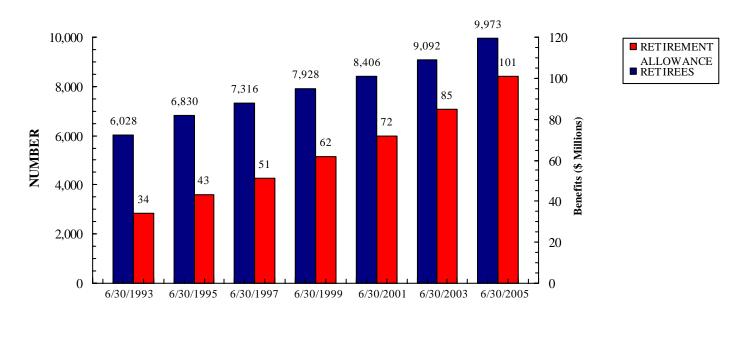
TABLE II

## THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES CURRENTLY PAYABLE TO BENEFICIARIES ON THE ROLL AS OF JUNE 30, 2005 (continued)

GROUP	NUMBER	ANNUAL RETIREMENT ALLOWANCES*
Dependents of Deceased  Members and Beneficiaries		
Employees:		
Men	107	\$ 637,172
Women	865	7,270,583
Subtotal	972	\$ 7,907,755
Teachers:		
Men	65	\$ 723,963
Women	196	3,187,054
Subtotal	261	\$ 3,911,017
Policemen:		
Men	24	\$ 364,747
Women	198	3,132,166
Subtotal	222	\$ 3,496,913
Firemen:		
Men	18	\$ 224,530
Women	172	2,941,026
Subtotal	190	\$ 3,165,556
Grand Total	18,950	\$ 296,354,396

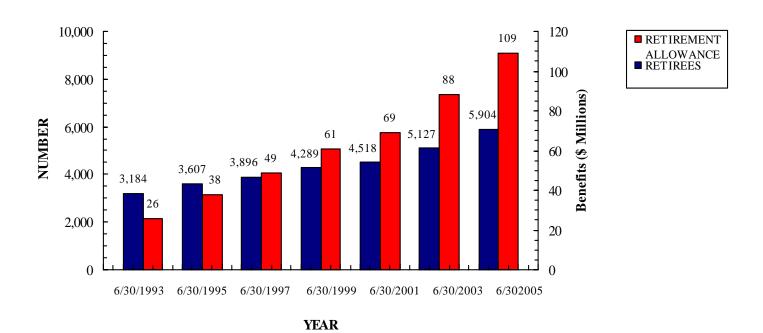
<sup>\*</sup>Includes COLA increases.

### NHRS EMPLOYEES NUMBER AND ANNUAL RETIREMENT ALLOWANCES

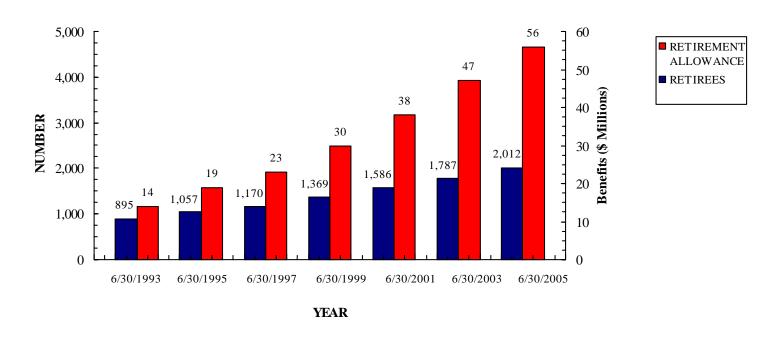


YEAR

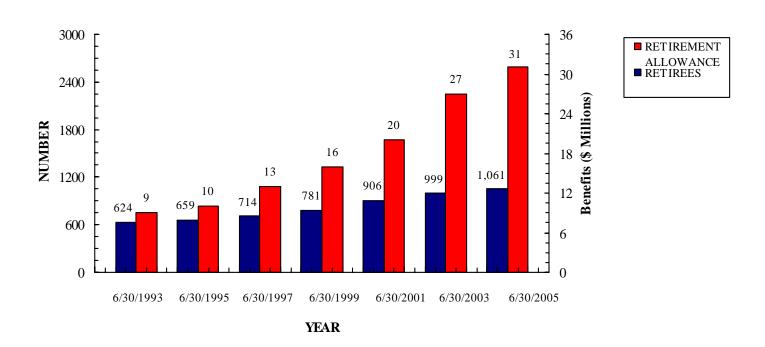
### NHRS TEACHERS NUMBER AND ANNUAL RETIREMENT ALLOWANCES



### NHRS POLICEMEN NUMBER AND ANNUAL RETIREMENT ALLOWANCES



### NHRS FIREMEN NUMBER AND ANNUAL RETIREMENT ALLOWANCES



#### **SECTION III - ASSETS**

- 1. The amount of assets taken into account in this valuation is based principally on information reported by the Retirement System Director of Finance.
- In accordance with RSA 100-A:16, the assets of the Retirement System are credited into three main funds. The Member Annuity Savings Fund is credited with all contributions made by members, together with interest thereon. The State Annuity Accumulation Fund is credited with the non-medical contributions made by the State and by the employing subdivisions, and is debited by all retirement allowances made to retired members and to beneficiaries of deceased members. Assets equal to the medical contributions made by the State and the employing subdivisions are transferred from the Medical Special Account to the State Annuity Accumulation Fund to make it whole. The 401(h) Subtrust Fund is credited with the medical contributions made by the State and by the employing subdivisions and is debited by the payment of postretirement medical premiums for certain Group I and Group II retirees up to a prescribed maximum. Each of the three main funds is subdivided on account of the four member classifications.
- 3. For actuarial purposes the aggregate assets of the system are valued on the basis of a five-year moving market average valuation method. The operation of the method is outlined in Schedule E of the valuation report prepared as of June 30, 1976 and is briefly summarized in Schedule B of this report. Schedule G of this report shows the determination of actuarial value of assets as of June 30, 2005. It should be noted that once the five-year average is determined, as directed by the Board of Trustees, this value is compared with the book and market values of assets and the middle of these three values is used for funding purposes. However, the actuarial value of assets cannot be lower than the five-year average value.
  - As part of the valuation procedure, investment earnings for the past two years have been analyzed.
     Based on the procedures used and certain approximations, the total rate of return on the aggregate

assets of the system has been determined as being 1.85% and 1.25% for the years ended June 30, 2004 and June 30, 2005, respectively, including realized and unrealized appreciation and depreciation to the extent recognized in the asset valuation method. The assumed annual long term rate of return was 9%. These results may be compared with the rate of return on market value which equaled 14.38% and 9.42% in the years ended June 30, 2004 and June 30, 2005 respectively.

#### SECTION IV - ACTUARIAL ASSUMPTIONS AND METHODS

- 1. As approved by the Board, the interest rate, the postretirement mortality tables for teachers, the demographic assumptions for employees, teachers and policemen and the salary scales for teachers, policemen and firemen used for valuation purposes were revised from those used in connection with the previous valuation as of June 30, 2003. The forecast or short-term projection assumptions were also revised in line with the past two years' experience and to anticipate the latest information as to the expected workforce size, new entrant hiring patterns and rates of salary increase. In particular, the new entrant distributions were modified to reflect recent experience. The present and revised assumptions and methods are discussed briefly in paragraphs 2 through 5 below. The actuarial assumptions are summarized in Schedule B.
- 2. The present actuarial funding method is the open group aggregate funding method as required under Chapter 55 of the Laws of 1992. This method develops a normal contribution rate for each membership classification based on present members and future new members. The assumptions for the future new entrants are shown in Schedule B. Under this method, actuarial gains and losses are spread over the future working lifetime of current active and future active members. New unfunded accrued liabilities are established as additional sponsors join the system and grant past service credit to their employees.
- 3. The demographic and economic assumptions have been reviewed in the experience study completed as of June 30, 2005. The results of this study were presented to the Board of Trustees in October,

2005 and November, 2005. The Board of Trustees approved a decrease in the interest rate from 9.0% to 8.5% per annum, revised the salary increase assumptions for teachers, policemen and firemen, revised the postretirement mortality table for teachers and revised the demographic assumptions for employees, teachers and policemen. The assumptions used in the valuation are reasonable and will continue to be closely monitored in comparison with developing experience.

- 4. For membership classifications that are not well funded the calculated normal rates may not be less than the rates determined using a target funding goal based on a funded ratio of 115% over a 30 year horizon using an 8% interest rate to value liabilities. This limitation is designed to help insure the future security of the system's benefit obligation.
- 5. The forecast assumptions were revised to reflect the most recent hiring patterns.

#### SECTION V - COMMENTS ON THE REGULAR VALUATION

- 1. The results of the regular valuation as of June 30, 2005 are presented in Schedule A in the form of four valuation balance sheets, one for each classification of members included in the system. The balance sheets reflect the value of the member annuities which are expected to be provided by future contributions of the members, as well as the value of their present contributions. The balance sheet results are illustrated graphically in the latter half of Schedule A.
- 2. For each membership classification, the liabilities are shown separately for all beneficiaries of the system who are currently in receipt of benefits or entitled to deferred retirement allowances, for current active and inactive members and for future active members. The liabilities for current active and future active members include the value of benefits expected to be earned for service rendered after the valuation date.
- 3. New unfunded accrued liabilities are established as additional sponsors join the system and grant past service credit to their employees.

- 5. Since the members' contributions are fixed by the Statutes, the present value of future normal contributions payable by the State and employing subdivisions represents the balancing item on each valuation balance sheet. The Statutes provide for the State to pay 35% of the required future normal contributions and the remaining 65% to be paid by the employing subdivision. With regard to employee members, the employer, whether the State or a local subdivision, pays 100% of the required normal contribution for its employees.
- 6. Based on the results of the current valuation of the system, we have determined that the following rates of normal contribution would be appropriate as of June 30, 2005 to maintain the actuarial balance of the system:

TABLE III

	NORM	NORMAL CONTRIBUTION RATESØ					
MEMBERSHIP CLASSIFICATION	State's Portion	Employing Subdivision Portion	Total				
Employees* Teachers Policemen Firemen	N/A 2.73% 5.86 6.39	N/A 5.06% 10.88 11.88	7.71% 7.79 16.74 18.27				

<sup>\*</sup> Normal rate applied to the respective payrolls of each employer.

7. The total contribution rates may be compared to the regular valuation as of June 30, 2003, the interim valuation results as of June 30, 2004 and the forecast valuation results as of June 30, 2005 as follows:

Without regard to minimum normal contribution rates required by target funding.

TABLE IV

		NORMAL CONTRIBUTION RATES				
			Forecast			
MEMBERSHIP	Regular Valuation	Interim Valuation	Valuation			
CLASSIFICATION	June 30, 2003#	June 30, 2004 <sup>ØØ</sup>	June 30, 2005	June 30, 2005		
Employees	6.06%	6.37%	6.37%	7.71%		
Teachers	4.67	5.24	5.24	7.79		
Policemen	12.33	13.20	13.20	16.74		
Firemen	16.31	17.17	17.17	18.27		

The results of the interim valuation as of June 30, 2004 will be used to determine contributions for fiscal years ending June 30, 2006 and June 30, 2007.

- 8. The change in the calculated normal contribution rates for each membership classification from 2003 to 2005 reflects assumption changes and the experience of the system with regard to that classification during the period. Actuarial gains generated by favorable experience reduce the normal rate and actuarial losses due to unfavorable experience increase the normal rate.
- 9. The actuarial value of assets was less than anticipated generating losses for all membership classifications. Salary increases were less than expected and resulted in actuarial gains for employees and policemen whereas salary increases were greater than expected for teachers and firemen resulting in actuarial losses. Current new entrant experience generated a loss for all membership classifications.
- 10. The experience with regard to active service turnover has been favorable for teachers and unfavorable for employees, policemen and firemen. The experience with regard to postretirement mortality experience has been favorable for firemen, unfavorable for employees and policemen and no impact on teachers.
- 11. The assumption changes generated losses for employees, teachers and policemen and generated gains for firemen.
- 12. The details of the (gain)/loss analysis based on the open group aggregate funding method for each membership classification are shown below:

Based on June 30, 2003 valuation data.

TABLE V

	EFFECT OF (GAIN) OR LOSS					
ITEM	EMPLOYEES	TEACHERS	POLICEMEN	FIREMEN		
Actual Normal Rate as of 6/30/2003	6.06%	4.67%	12.33%	16.31%		
Decremental experience Pensioners' experience	.02	(.01) .00	.38	.04 (.06)		
Excess salary increases	(.01)	.09	(0.12)	.17		
Assets different than expected	.79	1.52	1.85	2.23		
Current new entrants	.04	.02	.16	.14		
Amendments	.00	.00	.00	.00		
Assumption changes*	.39	.90	2.08	(.32)		
Balancing item	.40	.60	.05	(.24)		
Actual Normal Rate as of 6/30/2005	7.71%	7.79%	16.74%	18.27%		

<sup>\*</sup>Includes assumption and new entrant population changes.

#### SECTION VI - COMMENTS ON THE FORECAST VALUATIONS

- 1. The forecast valuations are prepared as an aid to the Trustees and the Executive Director in budgeting for the system costs over the ensuing biennium. The technique consists of estimating the system costs based on projected population for each year of the next biennium. These populations reflect realistic short-term assumptions as to future experience. These short-term projection assumptions are summarized in Schedule B.
- The following Table VI and Graph III show the projected number and annual compensation of
  active members for the fiscal years ending June 30, 2008 and June 30, 2009 based on the projection
  assumptions.

TABLE VI

THE NUMBER AND ANNUAL EARNABLE COMPENSATION OF PROJECTED ACTIVE\* MEMBERS

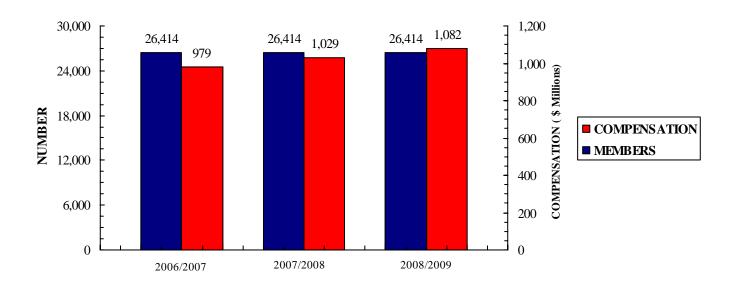
	20	007/2008	2008/2009		
MEMBERSHIP CLASSIFICATION	Number	Compensation	Number	Compensation	
Employees Teachers Policemen Firemen	26,414 18,474 4,573 1,599	\$ 1,028,983,452 956,956,831 248,859,151 106,585,396	26,414 18,474 3,393 4,573 1,599	\$ 1,081,805,630 994,850,345 258,898,722 112,198,177	
Total	51,060	\$ 2,341,384,830	51,060	\$ 2,447,752,874	

<sup>\*</sup>Inactive members are excluded from these statistics.

3. For projection purposes retired members were assumed to die in accordance with the postretirement mortality tables adopted by the Board. In addition, active members were brought onto the retired roll or terminated during the projection period in accordance with the active service tables adopted by the Board for valuation purposes.

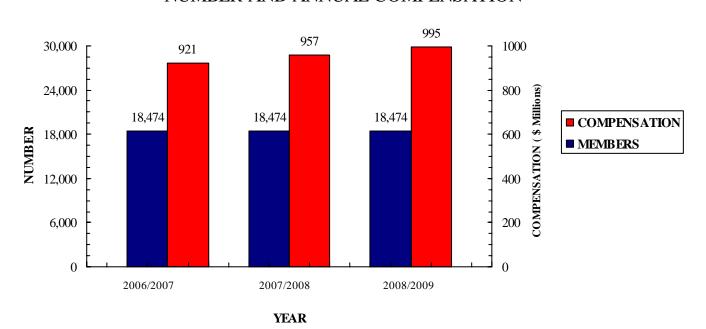
#### **NHRS EMPLOYEES**

#### NUMBER AND ANNUAL COMPENSATION



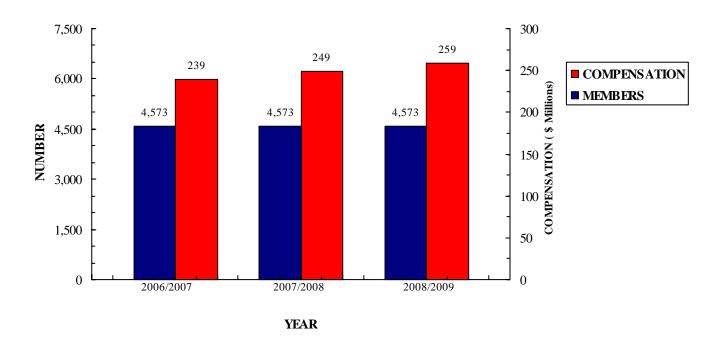
#### YEAR

### NHRS TEACHERS NUMBER AND ANNUAL COMPENSATION

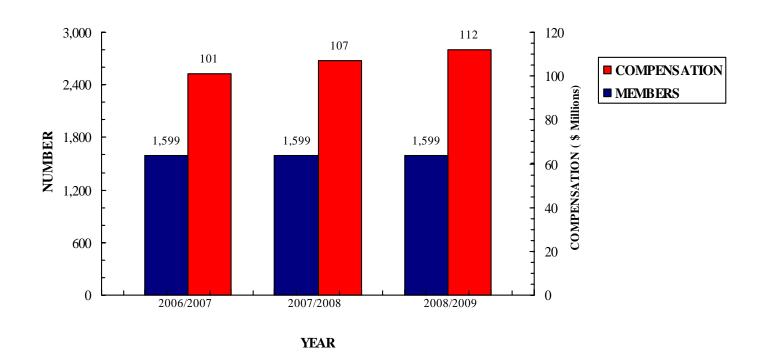


#### **NHRS POLICEMEN**

#### NUMBER AND ANNUAL COMPENSATION



### NHRS FIREMEN NUMBER AND ANNUAL COMPENSATION



- 4. For purposes of the forecast valuation it has been assumed that the adjusted assets of the system as of June 30, 2005 plus the future annual net cash flow would realize a total rate of return equal to 8.5% per annum.
- 5. Based on this rate of return and taking into account the expected annual cash flow within each membership classification the total projected adjusted asset values as of June 30, 2007 and June 30, 2008 are as follows:

TABLE VII

PROJECTED ADJUSTED ASSETS\* OF THE SYSTEM
AS OF JUNE 30, 2007 AND JUNE 30, 2008

	TOTAL ADJUSTED ASSET VALUE				
MEMBERSHIP CLASSIFICATION		June 30, 2007		June 30, 2008	
Employees Teachers Policemen Firemen	\$	1,312,842,359 1,641,869,146 771,484,933 380,879,286	\$	1,426,086,174 1,750,386,411 827,066,463 409,475,935	
Total	\$	4,107,075,724	\$	4,413,014,983	

<sup>\*</sup>Excludes assets from the Special Account and the 401(h) Subtrust Fund assets.

6. Based on the results of the forecast valuations, the normal contribution rates necessary to maintain the actuarial balance of the system in fiscal 2007/2008 and 2008/2009 were calculated as shown on the following table:

**TABLE VIII** 

MEMBERSHIP CLASSIFICATION	NORMAL CONTRIBUTION RATE FOR FISCAL YEARS 2007/2008 AND 2008/20096
Employees	7.71%
Teachers	7.79
Policemen	16.74
Firemen	18.27

φ Without regard to minimum normal contribution rate.

7. For membership classifications that are not well funded the Board has recommended that the minimum normal contribution rate not be less than the rates determined using target funding with a funding goal of 115% over a 30 year horizon and an 8% interest rate to value liabilities. The following table shows the funding level and target rate for each membership classification:

TABLE IX

Membership Classification	Funded Ratio as of June 30, 2005*	Target Funding Rateø
Employees Teachers Policemen Firemen	71.76% 76.83 79.51 71.12	8.74% 8.93 18.21 24.49

ø Based on an 8% target funding discount rate.

As can be seen in Table IX, all the membership classifications are not considered to be well funded, therefore, the target funding rates should be used to determine future contribution levels since they are greater than the rates determined under the valuation funding method.

<sup>\*</sup> Excludes postretirement medical assets and liabilities.

#### **SECTION VII - APPROPRIATIONS**

- 1. In the case of employees, the State contributes on the basis of the full rate for its employees and the employing subdivisions contribute on the basis of the full rate for their respective employees. With regard to the other membership classifications the State contributes on the basis of 35% of the indicated rates, while the employing subdivisions contribute on the basis of the remaining 65% of the indicated rates.
- 2. Applying the respective rates (after reflecting the minimum normal contribution rates) to the projected payrolls, the State's estimated normal contribution requirements for the next two years are as follows:

TABLE X

	ESTIMATED STATE NORMAL CONTRIBUTION REQUIREMENTS FOR FISCAL:*				
MEMBERSHIP CLASSIFICATION	2007/2008 2008/2009				
Employees Teachers Policemen Firemen	\$	41,365,135 29,952,749 15,852,328 9,134,368	\$	43,488,586 31,138,816 16,491,849 9,615,384	
Total	\$	96,304,580	\$	100,734,635	

<sup>\*</sup> Actual contributions are determined as normal rates times monthly payrolls.

3. The following rates should be used to determine the normal contribution requirements based on compensation levels for fiscal years 2007/2008 and 2008/2009:

TABLE XI

MEMBERSHIP CLASSIFICATION	NORMAL CONTRIBUTION RATE FOR EMPLOYING SUBDIVISION	NORMAL CONTRIBUTION RATE FOR THE STATE
Employees Teachers Policemen Firemen	8.74% 5.80% 11.84% 15.92%	8.74% 3.13% 6.37% 8.57%

4. In addition to the required normal contributions, certain employers, should continue to make annual payments towards the amortization of the unfunded accrued liabilities. For each new participating employer a separate determination will need to be made as of the date of participation assuming past service credit is granted. Table XII shows the reconciliation of the unfunded accrued liabilities from June 30, 2005 to June 30, 2007. Table XIII shows a breakdown of the unfunded accrued liabilities at June 30, 2007 and the required contributions necessary to fund these amounts.

TABLE XII

RECONCILIATION OF UNFUNDED ACCRUED LIABILITIES FROM JUNE 30, 2005 TO JUNE 30, 2007

MEMBER- SHIP CLASSI- FICATION	ITEM	AG LI AS	IFUNDED CCRUED ABILITY OF JUNE 30, 2005	I	2005/2006 ACCRUED LIABILITY CONTRI- BUTIONØ	UNFUNDED ACCRUED ABILITY AS OF JUNE 30, 2006	ACC LIA CC	06/2007 CRUED BILITY DNTRI- TIONØ	AC LIA AS	FUNDED CCRUED ABILITY OF JUNE 10, 2007
Employees	Town of Raymond Brookline Public Library	\$	20,768	\$	2,667* 1,483	\$ 19,866 8,981	\$	2,667* 1,483	\$	18,888 8,135
	Total	\$	30,528	\$	4,150	\$ 28,847	\$	4,150	\$	27,023

ø Payable at beginning of fiscal year unless otherwise noted.

#### TABLE XIII

### UNFUNDED ACCRUED LIABILITIES AT JUNE 30, 2007 AND REQUIRED CONTRIBUTIONS

						FISCAL YEAR IN
						WHICH FUNDING
		J	JNFUNDED		ANNUAL	OF UNFUNDED
		ACCRUED		ACCRUED		ACCRUED
MEMBERSHIP		LIABILITY AS OF		LIABILITY		LIABILITY WILL
CLASSIFICATION	ITEM	JUNE 30, 2007		CO	NTRIBUTIONø	BE COMPLETED
Employees	Town of Raymond	\$	18,888	\$	2,667*	2019
	Brookline Public Library	\$	8,135	\$	1,483	2014

ø Payable at beginning of fiscal year unless otherwise noted.

<sup>\*</sup> Payable at end of fiscal year.

<sup>\*</sup> Payable at end of fiscal year.

### SECTION VIII - 401(h) SUBTRUST FUND FOR POSTRETIREMENT MEDICAL BENEFITS

- 1. RSA100-A:52 provides for the payment of a specified level of postretirement medical premiums for certain retired Group I and Group II members and beneficiaries. The monthly premium level for members younger than age 65 provided through the system for single coverage is limited to \$321.98 as of July 1, 2005 and increases each July 1 by 8%. The corresponding monthly premium for coverage for the spouse and the member is \$643.96 as of July 1, 2005. For members older than age 65, the monthly premium level for single coverage is limited to \$203.06 as of July 1, 2005 and increases each July 1 by 8%. The corresponding monthly premium for the member and spouse over age 65 is \$406.12 as of July 1, 2005.
- 2. Under Section 401(h) of the Internal Revenue Code qualified retirement plan trusts may pay for medical premiums due for retirees. These payments are funded through contributions of the employer which may not exceed 33-1/3% of the normal cost for the respective membership classification. For this reason we have separately analyzed the cost of the medical coverage provided in RSA100-A:52 and the results are shown in Table XIV.
- 2. The four portions of Table XIV present the results of the postretirement medical valuations for employees, teachers, policemen and firemen, respectively.
- 3. Under the financing terms of RSA100-A:53, a Medical Special Account in the amount of \$52.8 million was established as of July 1, 1988 for Group II, a Medical Special Account in the amount of \$89.1 million was established as of July 1, 1999 for teachers and a Medical Special Account in the amount of \$36.4 million was established as of January 1, 2002 for employees. Assets equal to the annual postretirement medical contributions are transferred to the State Annuity Accumulation Fund from the Medical Special Account. After the initial Medical Special Account has been adjusted for earnings and for transfers to the State Annuity Accumulation Fund, the remaining balances based on the actuarial value in the Medical Special Account as of June 30, 2005 are \$82,885,556,

- \$95,024,293, \$109,222,782 and \$51,701,718 for employees, teachers, policemen and firemen, respectively.
- 5. The 401(h) Subtrust Fund receives assets from the contributions from the State and the employing subdivisions. The annual premiums are paid from the 401(h) Subtrust Fund. The actual market value of the 401(h) Subtrust Fund as of June 30, 2005 as reported by the trustee was \$12,099,911, \$11,754,355, \$48,968,376 and \$34,261,297 for employees, teachers, policemen and firemen, respectively.

TABLE XIV

NEW HAMPSHIRE RETIREMENT SYSTEM - GROUP I EMPLOYEES

RESULTS OF THE POSTRETIREMENT MEDICAL VALUATIONS

		2005/2006	2007/2008	2008/2009
1.	Projected liabilities			
	(a) For active members	\$38,656,853	\$45,507,814	\$49,375,978
	(b) For pensioners and beneficiaries	\$206,003,313	\$207,139,834	\$205,689,728
	(c) Total	\$244,660,166	\$252,647,648	\$255,065,706
2.	Projected assets (five-year moving market			
	average)	\$11,067,415	\$20,012,689	\$26,190,141
3.	Projected future normal cost [1.(c)-2.]	\$233,592,751	\$232,634,959	\$228,875,565
4.	Projected normal contribution rate (without regard to limitations)	2.79 %	2.57 %	2.43 %
5.	Normal contribution (without regard to limitations)	\$25,906,192	\$26,444,875	\$26,287,877
6.	Allowable normal contribution	\$21,077,797	\$26,444,875	\$26,287,877
7.	Accrued liability	\$244,660,166	\$252,647,648	\$255,065,706
8.	Total earmarked assets (401(h) market value plus Medical Special Account as of			
	beginning of year)	\$94,985,467	\$72,454,418	\$55,938,243
9.	Funded ratio (8./7.)	38.8 %	28.7 %	21.9 %

TABLE XIV  $\label{table equation} \textbf{NEW HAMPSHIRE RETIREMENT SYSTEM - GROUP I TEACHERS }$  RESULTS OF THE POSTRETIREMENT MEDICAL VALUATIONS

		2005/2006	2007/2008	2008/2009
1.	Projected liabilities			
	(a) For active members	\$85,479,131	\$100,628,170	\$109,181,564
	(b) For pensioners and beneficiaries	\$196,168,807	\$198,652,241	\$198,145,347
	(c) Total	\$281,647,938	\$299,280,411	\$307,326,911
2.	Projected assets (five-year moving market			
	average)	\$10,649,025	\$10,909,003	\$16,493,159
3.	Projected future normal cost [1.(c)-2.]	\$270,998,913	\$288,371,408	\$290,833,752
4				
4.	Projected normal contribution rate (without	2.42.24	2.42.24	2.22.04
	regard to limitations)	3.43 %	3.43 %	3.33 %
5.	Normal contribution (without regard to			
5.	limitations)	\$30,393,699	\$32,823,619	\$33,128,516
	ninations)	Ψ50,575,077	Ψ32,023,019	φ55,120,510
6.	Allowable normal contribution	\$16,836,160	\$28,517,314	\$29,646,540
7.	Accrued liability	\$281,647,938	\$299,280,411	\$307,326,911
8.	Total earmarked assets (401(h) market			
	value plus Medical Special Account as of			
	beginning of year)	\$106,778,648	\$86,617,542	\$69,390,992
9.	Funded ratio (8./7.)	37.9 %	28.9 %	22.6 %

TABLE XIV

NEW HAMPSHIRE RETIREMENT SYSTEM - GROUP II POLICEMEN

RESULTS OF THE POSTRETIREMENT MEDICAL VALUATIONS

		2005/2006	2007/2008	2008/2009
1.	Projected liabilities			
	(a) For active members	\$252,065,863	\$292,848,181	\$314,360,852
	(b) For pensioners and beneficiaries	\$126,430,848	\$166,237,431	\$180,420,817
	(c) Total	\$378,496,711	\$459,085,612	\$494,781,669
2.	Projected assets (five-year moving market			
	average)	\$44,450,720	\$55,677,571	\$62,947,454
3.	Projected future normal cost [1.(c)-2.]	\$334,045,991	\$403,408,041	\$431,834,215
4.	Projected normal contribution rate (without			
4.	-	17.49 %	19.82 %	20.55 %
	regard to limitations)	17.49 %	19.82 %	20.55 %
5.	Normal contribution (without regard to			
	limitations)	\$40,279,410	\$49,323,884	\$53,203,687
	,	,,	, ,	,,
6.	Allowable normal contribution	\$11,445,893	\$15,105,750	\$15,715,152
7.	Accrued liability	\$277,605,327	\$340,313,753	\$365,914,202
8.	Total earmarked assets (401(h) market			
	value plus Medical Special Account as of			
	beginning of year)	\$158,191,158	\$164,567,422	\$165,603,070
9.	Funded ratio (8./7.)	57.0 %	48.4 %	45.3 %

TABLE XIV

NEW HAMPSHIRE RETIREMENT SYSTEM - GROUP II FIREMEN

RESULTS OF THE POSTRETIREMENT MEDICAL VALUATIONS

		2005/2006	2007/2008	2008/2009
1.	Projected liabilities			
	(a) For active members	\$100,596,938	\$117,752,482	\$127,092,867
	(b) For pensioners and beneficiaries	\$70,337,808	\$78,548,261	\$82,369,126
	(c) Total	\$170,934,746	\$196,300,743	\$209,461,993
2.	Projected assets (five-year moving market			
	average)	\$32,614,159	\$43,399,020	\$50,039,521
3.	Projected future normal cost [1.(c)-2.]	\$138,320,587	\$152,901,723	\$159,422,472
4.	Projected normal contribution rate (without			
	regard to limitations)	13.89 %	14.16 %	14.17 %
5.	Normal contribution (without regard to			
5.	limitations)	\$13,343,420	\$15,092,492	\$15,898,482
	illintations)	\$13,343,420	\$13,092,492	\$13,676,462
6.	Allowable normal contribution	\$7,070,380	\$8,697,368	\$9,155,371
		<i>\$7,070,000</i>	\$6,627,600	\$5,100,071
7.	Accrued liability	\$126,761,571	\$144,298,977	\$153,040,077
8.	Total earmarked assets (401(h) market			
	value plus Medical Special Account as of			
	beginning of year)	\$85,963,015	\$90,691,649	\$92,434,083
9.	Funded ratio (8./7.)	67.8 %	62.8 %	60.4 %

#### **SECTION IX - EXPERIENCE**

- 1. Records are maintained with regard to the developing experience of the system as compared to the anticipated experience based on the current assumptions adopted by the Board of Trustees. Significant deviations are noted and revisions in assumptions are recommended periodically so that the funding requirements of the system can be properly anticipated. Tables XV and XVI summarize the aggregate active experience results for the past two years for each of the groups. Schedule E illustrates the experience graphically for each of the groups.
- 2. The demographic assumptions and the future new entrant assumptions for all classifications were revised as of June 30, 2005.
- 3. Schedule F illustrates graphically the projected benefit payouts over the period from July 1, 2005 to June 30, 2014. The expected results are based on the regular valuation assumptions only.

TABLE XV SEPARATIONS FROM ACTIVE SERVICE JULY 1, 2003 TO JUNE 30, 2005\*

GROUP AND TYPE OF SEPARATION	EXPECTED SEPARATIONS	ACTUAL SEPARATIONS	RATIO OF ACTUAL TO EXPECTED
Employees			
Withdrawals	3,271.6	2,241	0.685
Deaths	75.3	82	1.089
Disability Retirements	108.8	113	1.038
Service Retirements	1,719.8	1,402	0.815
Teachers			
Withdrawals	1,314.2	938	0.714
Deaths	40.2	29	0.721
Disability Retirements	31.6	15	0.475
Service Retirements	1,239.2	1,002	0.809
Policemen			
Withdrawals	320.1	296	0.925
Ordinary Death	9.6	9	0.938
Accidental Death	0.9	0	0.000
Ordinary Disability	7.4	3	0.405
Accidental Disability	15.6	13	0.833
Service Retirements	178.6	200	1.120
Firemen			
Withdrawals	25.9	23	0.888
Ordinary Death	2.4	0	0.000
Accidental Death	0.6	2	3.333
Ordinary Disability	0.3	1	3.333
Accidental Disability	5.9	4	0.678
Service Retirements	95.6	84	0.879

<sup>\*</sup>Expected amounts are based on long-term valuation assumptions.

TABLE XVI SALARY INCREASE EXPERIENCE JULY 1, 2003 TO JUNE 30, 2005

GROUP	EXPECTED ANNUAL SALARIES	ACTUAL ANNUAL SALARIES	RATIO OF ACTUAL SALARIES TO EXPECTED SALARIES
Employees	\$ 762,122,086	\$ 760,421,112	0.998
Teachers	749,393,788	764,419,049	1.020
Policemen	197,340,634	193,733,194	0.982
Firemen	80,360,620	82,125,245	1.022

#### SECTION X - PLAN FUNDING STATUS AND PROGRESS

- The system determines the annual required contribution using the open group aggregate funding method. This method does not identify or separately amortize unfunded actuarial liabilities. However, the Board of Trustees monitors the funding progress by reviewing the funded ratios of the system each June 30th. The funded ratio is determined by dividing the net assets held in trust for benefits by the liabilities of the system.
- 2. The relevant information which follows on Table XVII is shown separately for each membership classification and in total for fiscal years ending June 30, 2005, June 30, 2006, June 30, 2007 and June 30, 2008 The actuarial present value of vested and nonvested accrued benefits is based on an interest rate of 8.5%.
- 3. The pension benefit obligation (PBO) for each retiree and beneficiary is the present value of benefits payable as of the measurement date. For active members, the PBO is determined by calculating the benefits for each probable cause of termination (withdrawal, death, disability, service retirement) on the basis of total service as of the measurement date and final average compensation at an expected future date of retirement. In the case of a benefit payable equal to the member's projected accumulated contributions, the accrued benefit is equal to the value of the accumulated contributions on the measurement date. The sum of the present values of these projected accrued benefits measures the PBO for each active member.
- 4. Assets are determined on the same basis as that used in the actuarial valuation. The Group I and Group II liabilities exclude the postretirement medical benefit liabilities.

## Based on 8.5% Interest Assumption Employees

		2005	2006	2007	2008
A.	Pension Benefit Obligation  1. Retirees & Beneficiaries Currently Receiving Benefits & Term. Employees Not Yet Entitled	\$900,007,117	\$943,150,895	\$988,920,057	\$1,045,411,680
	Current Employees     a. Accumulated Employee Contributions     With Interest	730,152,633	774.994.896	824,805,117	874,841,192
	b. Employer Financed	339,440,381	375,934,003	417,317,433	458,891,845
	3. Total Pension Benefit Obligation	\$1,969,600,131	\$2,094,079,794	\$2,231,042,607	\$2,379,144,717
	DING STATUS AT MARKET VALUE OF ASSETS				
В.	Net Assets Market Value of Assets Less: Undesignated Special Account Less: Account for Medical Insurance Subsidy	\$1,439,406,212 89,544,458 94,985,467	\$1,547,628,791 97,155,737 85,297,181	\$1,664,283,511 105,413,975 72,454,418	\$1,807,399,824 114,374,163 55,938,243
	Market Value of Assets Available for Benefits*	\$1,254,876,287	\$1,365,175,873	\$1,486,415,118	\$1,637,087,418
C.	Unfunded Pension Benefit Obligation Percent Funded Payroll Unfunded / Payroll	\$714,723,844 63.71% \$879,418,641 81.27%	\$728,903,921 65.19% \$928,537,332 78.50%	\$744,627,489 66.62% \$978,623,223 76.09%	\$742,057,299 68.81% \$1,028,983,452 72.12%
FUN	DING STATUS AT ACTUARIAL VALUE OF ASSETS				
D.	Net Assets Actuarial Value Less: Special Account	\$1,230,417,125 <u>89,544,458</u>	\$1,320,875,632 <u>97,155,737</u>	\$1,418,256,334 105,413,975	\$1,540,460,337 <u>114,374,163</u>
	Net Assets Available for Benefits*	\$1,140,872,667	\$1,223,719,895	\$1,312,842,359	\$1,426,086,174
E.	Unfunded Pension Benefit Obligation Percent Funded Payroll Unfunded / Payroll	\$828,727,464 57.92% \$879,418,641 94.24%	\$870,359,899 58.44% \$928,537,332 93.73%	\$918,200,248 58.84% \$978,623,223 93.83%	\$953,058,543 59.94% \$1,028,983,452 92.62%

<sup>\*</sup> Includes all receivable contributions.

## Based on 8.5% Interest Assumption Teachers

		2005	2006	2007	2008
A.	Pension Benefit Obligation  1. Retirees & Beneficiaries Currently Receiving Benefits & Term. Employees Not Yet Entitled	\$1,035,309,882	\$1,116,728,276	\$1,209,980,010	\$1,317,272,358
	Current Employees     a. Accumulated Employee Contributions     With Interest	855,779,034	907,835,188	956,516,451	1,000,712,948
	b. Employer Financed	513,584,150	531,898,475	547,690,679	558,044,962
	3. Total Pension Benefit Obligation	\$2,404,673,066	\$2,556,461,939	\$2,714,187,140	\$2,876,030,268
FUN	DING STATUS AT MARKET VALUE OF ASSETS				
В.	Net Assets Market Value of Assets Less: Undesignated Special Account Less: Account for Medical Insurance Subsidy	\$1,862,795,844 111,459,505 106,778,648	\$1,976,906,151 120,933,563 98,725,061	\$2,091,671,059 131,212,916 86,617,542	\$2,238,421,487 142,366,014 69,390,992
	Market Value of Assets Available for Benefits*	\$1,644,557,691	\$1,757,247,527	\$1,873,840,601	\$2,026,664,481
C.	Unfunded Pension Benefit Obligation Percent Funded Payroll Unfunded / Payroll	\$760,115,375 68.39% \$851,663,813 89.25%	\$799,214,412 68.74% \$886,113,685 90.19%	\$840,346,539 69.04% \$921,123,746 91.23%	\$849,365,787 70.47% \$956,956,831 88.76%
FUN	DING STATUS AT ACTUARIAL VALUE OF ASSETS				
D.	Net Assets Actuarial Value Less: Special Account	\$1,592,168,736 <u>111,459,505</u>	\$1,683,275,739 <u>120,933,563</u>	\$1,773,082,062 <u>131,212,916</u>	\$1,892,752,425 <u>142,366,014</u>
	Net Assets Available for Benefits*	\$1,480,709,231	\$1,562,342,176	\$1,641,869,146	\$1,750,386,411
E.	Unfunded Pension Benefit Obligation Percent Funded Payroll Unfunded / Payroll	\$923,963,835 61.58% \$851,663,813 108.49%	\$994,119,763 61.11% \$886,113,685 112.19%	\$1,072,317,994 60.49% \$921,123,746 116.41%	\$1,125,643,857 60.86% \$956,956,831 117.63%

<sup>\*</sup> Includes all receivable contributions.

## Based on 8.5% Interest Assumption Policemen

		2005	2006	2007	2008
A.	Pension Benefit Obligation  1. Retirees & Beneficiaries Currently Receiving Benefits & Term. Employees Not Yet Entitled	\$556,649,958	\$605,620,048	\$657,881,857	\$711,754,277
	Current Employees     a. Accumulated Employee Contributions     With Interest	287,253,965	298,886,614	309,268,915	319,800,138
	b. Employer Financed	226,302,365	237,955,212	250,399,184	<u>264,076,185</u>
	3. Total Pension Benefit Obligation	\$1,070,206,288	\$1,142,461,874	\$1,217,549,956	\$1,295,630,600
FUN	DING STATUS AT MARKET VALUE OF ASSETS				
В.	Net Assets Market Value of Assets Less: Undesignated Special Account Less: Account for Medical Insurance Subsidy  Market Value of Assets Available for Benefits*  Unfunded Pension Benefit Obligation Percent Funded Payroll Unfunded / Payroll	\$949,618,075 39,012,389 158,191,158 \$752,414,528 \$317,791,760 70.31% \$221,456,367 143.50%	\$1,017,928,371 42,328,442 162,017,017 \$813,582,912 \$328,878,962 71.21% \$230,299,655 142.80%	\$1,089,105,843 45,926,360 164,567,422 \$878,612,061 \$338,937,895 72.16% \$239,364,637 141.60%	\$1,171,685,150 49,830,101 165,603,070 \$956,251,979 \$339,378,621 73,81% \$248,859,151 136,37%
FUN	DING STATUS AT ACTUARIAL VALUE OF ASSETS				
D.	Net Assets Actuarial Value Less: Special Account	\$718,825,703 39,012,389	\$767,518,647 42,328,442	\$817,411,293 45,926,360	\$876,896,564 49,830,101
	Net Assets Available for Benefits*	\$679,813,314	\$725,190,205	\$771,484,933	\$827,066,463
E.	Unfunded Pension Benefit Obligation Percent Funded Payroll Unfunded / Payroll	\$390,392,974 63.52% \$221,456,367 176.28%	\$417,271,669 63.48% \$230,299,655 181.19%	\$446,065,023 63.36% \$239,364,637 186.35%	\$468,564,137 63.84% \$248,859,151 188.28%

<sup>\*</sup> Includes all receivable contributions.

## Based on 8.5% Interest Assumption Firemen

		2005	2006	2007	2008
A.	Pension Benefit Obligation  1. Retirees & Beneficiaries Currently Receiving Benefits & Term. Employees Not Yet Entitled	\$302,568,844	\$320,861,431	\$341,096,786	\$363,006,159
	Current Employees     a. Accumulated Employee Contributions     With Interest	143,234,143	152,124,670	160,649,625	169,242,137
	b. Employer Financed	128,037,787	136,885,139	146,179,838	155,833,667
	3. Total Pension Benefit Obligation	\$573,840,774	\$609,871,240	\$647,926,249	\$688,081,963
FUN	DING STATUS AT MARKET VALUE OF ASSETS				
В.	Net Assets Market Value of Assets Less: Undesignated Special Account Less: Account for Medical Insurance Subsidy  Market Value of Assets Available for Benefits*  Unfunded Pension Benefit Obligation Percent Funded Payroll Unfunded / Payroll	\$476,770,307 38,279,399 <u>85,963,015</u> \$352,527,893 \$221,312,881 61,43% \$91,029,441 243,12%	\$511,760,115 41,533,148 88,497,997 \$381,728,970 \$228,142,270 62.59% \$96,064,939 237.49%	\$549,095,882 45,063,466 90,691,649 \$413,340,767 \$234,585,482 63.79% \$101,219,166 231.76%	\$591,990,942 48,893,861 92,434,083 \$450,662,998 \$237,418,965 65.50% \$106,585,396 222.75%
FUN	DING STATUS AT ACTUARIAL VALUE OF ASSETS				
D.	Net Assets Actuarial Value Less: Special Account	\$372,157,229 38,279,399	\$398,254,926 41,533,148	\$425,942,752 <u>45,063,466</u>	\$458,369,796 48,893,861
	Net Assets Available for Benefits*	\$333,877,830	\$356,721,778	\$380,879,286	\$409,475,935
E.	Unfunded Pension Benefit Obligation Percent Funded Payroll Unfunded / Payroll	\$239,962,944 58.18% \$91,029,441 263.61%	\$253,149,462 58.49% \$96,064,939 263.52%	\$267,046,963 58.78% \$101,219,166 263.83%	\$278,606,028 59.51% \$106,585,396 261.39%

<sup>\*</sup>Includes all receivable contributions.

## Based on 8.5% Interest Assumption Total

		2005	2006	2007	2008
A.	Pension Benefit Obligation				
	1. Retirees & Beneficiaries				
	Currently Receiving Benefits & Term. Employees Not Yet Entitled	\$2,794,535,801	\$2,986,360,650	\$3,197,878,710	\$3,437,444,474
	2. Current Employees	\$2,794,333,601	\$2,980,300,030	\$3,197,676,710	\$5,457,444,474
	a. Accumulated Employee Contributions				
	With Interest	2,016,419,775	2,133,841,368	2,251,240,108	2,364,596,415
	b. Employer Financed	1,207,364,683	1,282,672,829	1,361,587,134	1,436,846,659
	3. Total Pension Benefit Obligation	\$6,018,320,259	\$6,402,874,847	\$6,810,705,952	\$7,238,887,548
FUN	DING STATUS AT MARKET VALUE OF ASSETS				
1011					
B.	Net Assets				
	Market Value of Assets	\$4,728,590,438	\$5,054,223,428	\$5,394,156,295	\$5,809,497,403
	Less: Undesignated Special Account	278,295,751	301,950,890	327,616,717	355,464,139
	Less: Account for Medical Insurance Subsidy	445,918,288	434,537,256	414,331,031	383,366,388
	Market Value of Assets Available for Benefits*	\$4,004,376,399	\$4,317,735,282	\$4,652,208,547	\$5,070,666,876
	Walket Value of Assets Available for Delicitis	\$4,004,370,399	\$4,317,733,262	\$4,032,206,347	\$3,070,000,870
C.	Unfunded Pension Benefit Obligation	\$2,013,943,860	\$2,085,139,565	\$2,158,497,405	\$2,168,220,672
	Percent Funded	66.54%	67.43%	68.31%	70.05%
	Payroll	\$2,043,568,262	\$2,141,015,611	\$2,240,330,772	\$2,341,384,830
	Unfunded / Payroll	98.55%	97.39%	96.35%	92.60%
FUN	DING STATUS AT ACTUARIAL VALUE OF ASSETS				
1011	bind stiffed til fleteriddie villet er fisselis				
D.	Net Assets				
	Actuarial Value	\$3,913,568,793	\$4,169,924,944	\$4,434,692,441	\$4,768,479,122
	Less: Special Account	278,295,751	301,950,890	327,616,717	355,464,139
	N.A. A. H.I. C. D. C. V	Ф2 <i>(</i> 25 272 042	#2.0 <i>C</i> 7.074.054	Φ4 107 075 7 <b>0</b> 4	Φ4 412 014 002
	Net Assets Available for Benefits*	\$3,635,273,042	\$3,867,974,054	\$4,107,075,724	\$4,413,014,983
E.	Unfunded Pension Benefit Obligation	\$2,383,047,217	\$2,534,900,793	\$2,703,630,228	\$2,825,872,565
	Percent Funded	60.40%	60.41%	60.30%	60.96%
	Payroll	\$2,043,568,262	\$2,141,015,611	\$2,240,330,772	\$2,341,384,830
	Unfunded / Payroll	116.61%	118.40%	120.68%	120.69%

<sup>\*</sup>Includes all receivable contributions.

5. The following table presents historical trend information (in millions of dollars) for fiscal years 1987 through 2005 for the system as a whole. Estimated results are shown for the three years following. Results for fiscal years ending 1990 and prior are based on an 8% interest assumption. Results for fiscal years ending 1991 through 2004 are based on a 9% interest assumption. Results for fiscal years ending 2005 and later are based on a 8.5% interest assumption.

TABLE XVIII TOTAL OF GROUPS

Fiscal Year Ending	A	let Assets Available or Benefits	Pension Benefit bligation	Percentage Funded	-	Infunded Pension Benefit Ibligation	(	Annual Covered Payroll	Unfunded Pension Benefit Obligation As A Percentage of Covered Payroll
1987	\$	792.6	\$ 798.3	99.3%	\$	5.7	\$	638.7	.9%
1988	\$	866.7	\$ 870.7	99.5%	\$	4.0	\$	695.7	.6%
1989	\$	1,114.6	\$ 1,332.1	83.7%	\$	217.5	\$	883.3	24.6%
1990	\$	1,245.7	\$ 1,471.9	84.6%	\$	226.1	\$	962.4	23.5%
1991	\$	1,348.7	\$ 1,482.2	91.0%	\$	133.5	\$	1,020.6	13.1%
1992	\$	1,517.2	\$ 1,600.5	94.8%	\$	83.3	\$	1,040.4	8.0%
1993	\$	1,674.3	\$ 1,797.3	93.2%	\$	123.0	\$	1,111.1	11.1%
1994	\$	1,830.9	\$ 1,954.2	93.7%	\$	123.3	\$	1,161.0	10.6%
1995	\$	2,004.7	\$ 2,225.0	90.1%	\$	220.3	\$	1,207.5	18.2%
1996	\$	2,172.4	\$ 2,418.9	89.8%	\$	246.5	\$	1,227.8	20.0%
1997	\$	2,387.2	\$ 2,677.0	89.2%	\$	289.8	\$	1,267.3	22.9%
1998	\$	2,607.9	\$ 2,924.7	89.2%	\$	316.8	\$	1,294.7	24.5%
1999	\$	2,886.5	\$ 3,229.2	89.4%	\$	342.7	\$	1,393.6	24.6%
2000	\$	3,109.7	\$ 3,460.3	89.9%	\$	355.1	\$	1,459.7	24.0%
2001	\$	3,336.7	\$ 3,909.6	85.4%	\$	572.9	\$	1,615.9	35.5%
2002	\$	3,571.1	\$ 4,192.0	85.2%	\$	620.9	\$	1,700.2	36.5%
2003	\$	3,538.8	\$ 4,709.9	75.1%	\$	1,171.1	\$	1,872.9	62.5%
2004	\$	3,600.3	\$ 5,054.7	71.2%	\$	1,454.4	\$	1,958.6	74.3%
2005	\$	3,635.3	\$ 6,018.3	60.4%	\$	2,383.0	\$	2,043.6	116.6%
2006*	\$	3,868.0	\$ 6,402.9	60.4%	\$	2,534.9	\$	2,141.0	118.4%
2007*	\$	4,107.1	\$ 6,810.7	60.3%	\$	2,703.6	\$	2,240.3	120.7%
2008*	\$	4,413.0	\$ 7,238.9	61.0%	\$	2,825.9	\$	2,341.4	120.7%

<sup>\*</sup>Projected estimates.

- 6. In the past, the auditors for the State and the system have sought information on the actuarial present value of accrued benefits as determined under Statement No. 35 of the Financial Accounting Standards Board. We have determined these values based on the current valuation and the forecast valuations. The actuarial value of vested and nonvested accrued benefits was based on an interest rate of 8.5%.
- 7. The following tables present these results separately for each membership classification and in total for fiscal years ending June 30, 2005, June 30, 2006, June 30, 2007 and June 30, 2008. Results are shown both including and excluding postretirement medical liabilities and assets.

## Based on 8.5% Interest Assumption Employees

	2005	2006	2007	2008
Vested Benefits	#000 050 0 <b>7</b> 0	Ф022 <b>22</b> 5 056	Ф0 <b>7</b> 0 <b>27</b> 0 0 <b>2</b> 2	Ф1 024 <b>2</b> 07 соо
Participants Currently Receiving Payments	\$890,858,878	\$933,225,056	\$978,279,923	\$1,034,207,609
Other Participants	836,603,912	889,560,009	954,442,277	1,019,087,300
Total Vested	\$1,727,462,790	\$1,822,785,065	\$1,932,722,200	\$2,053,294,909
Nonvested Benefits	21,158,455	25,723,693	30,760,609	34,748,330
Total Pension Liabilities	\$1,748,621,245	\$1,848,508,758	\$1,963,482,809	\$2,088,043,239
Market Value of Assets	\$1,439,406,212	\$1,547,628,791	\$1,664,283,511	\$1,807,399,824
Less: Undesignated Special Account	89,544,458	97,155,737	105,413,975	114,374,163
Less: Account for Medical Insurance Subsidy	94,985,467	85,297,181	72,454,418	55,938,243
Market Value of Assets Available for Benefits*	\$1,254,876,287	\$1,365,175,873	\$1,486,415,118	\$1,637,087,418
Funded Ratio for Pension Liability	71.76%	73.85%	75.70%	78.40%
Actuarial Present Value of Post Retirement Medical Liabilities				
Active	\$38,656,853	\$41,942,686	\$45,507,814	\$49,375,978
Retired	206,003,313	207,175,296	207,139,834	205,689,728
Total Actuarial Present Value of				
Post Retirement Medical Liabilities	\$244,660,166	\$249,117,982	\$252,647,648	\$255,065,706
Total Actuarial Present Value				
of Accrued Benefits	\$1,993,281,411	\$2,097,626,740	\$2,216,130,457	\$2,343,108,945
Market Value of Assets Available for Benefits*	\$1,349,861,754	\$1,450,473,054	\$1,558,869,536	\$1,693,025,661
Overall Funded Ratio	67.72%	69.15%	70.34%	72.26%

<sup>\*</sup> Includes all receivable contributions.

## Based on 8.5% Interest Assumption Teachers

	2005	2006	2007	2008
Vested Benefits	¢1 002 112 074	¢1 102 404 056	¢1 105 047 740	¢1 202 261 820
Participants Currently Receiving Payments	\$1,023,113,274	\$1,103,494,956 1,179,713,266	\$1,195,847,749	\$1,302,361,829 1,291,079,764
Other Participants	<u>1,105,441,278</u>	1,179,713,200	1,243,225,128	1,291,079,704
Total Vested	\$2,128,554,552	\$2,283,208,222	\$2,439,072,877	\$2,593,441,593
Nonvested Benefits	12,048,931	14,319,326	16,574,812	18,290,551
Total Pension Liabilities	\$2,140,603,483	\$2,297,527,548	\$2,455,647,689	\$2,611,732,144
Market Value of Assets	\$1,862,795,844	\$1,976,906,151	\$2,091,671,059	\$2,238,421,487
Less: Undesignated Special Account	111,459,505	120,933,563	131,212,916	142,366,014
Less: Account for Medical Insurance Subsidy	106,778,648	98,725,061	86,617,542	69,390,992
Less. Recount for Medical Insurance Subsidy	100,770,040	<u> </u>	00,017,542	07,370,772
Market Value of Assets Available for Benefits*	\$1,644,557,691	\$1,757,247,527	\$1,873,840,601	\$2,026,664,481
Funded Ratio for Pension Liability	76.83%	76.48%	76.31%	77.60%
Actuarial Present Value of Post Retirement Medical Liabilities				
Active	\$85,479,131	\$92,744,857	\$100,628,170	\$109,181,564
Retired	196,168,807	197,932,032	198,652,241	198,145,347
Total Actuarial Present Value of				
Post Retirement Medical Liabilities	\$281,647,938	\$290,676,889	\$299,280,411	\$307,326,911
Total Actuarial Present Value				
of Accrued Benefits	\$2,422,251,421	\$2,588,204,437	\$2,754,928,100	\$2,919,059,055
Market Value of Assets Available for Benefits*	\$1,751,336,339	\$1,855,972,588	\$1,960,458,143	\$2,096,055,473
Overall Funded Ratio	72.30%	71.71%	71.16%	71.81%

<sup>\*</sup> Includes all receivable contributions.

## Based on 8.5% Interest Assumption Policemen

	2005	2006	2007	2008
Vested Benefits	#556 150 F60	Φ<05.00 <b>7</b> .000	Ф <i>с</i> <b>57. 2</b> 00. 010	Ф <b>П</b> 11 120 <b>П</b> 02
Participants Currently Receiving Payments	\$556,158,760	\$605,087,098	\$657,309,819	\$711,139,783
Other Participants	364,959,142	381,119,022	<u>395,906,025</u>	410,687,801
Total Vested	\$921,117,902	\$986,206,120	\$1,053,215,844	\$1,121,827,584
Nonvested Benefits	<u>25,164,570</u>	27,121,082	29,440,259	31,455,796
Total Pension Liabilities	\$946,282,472	\$1,013,327,202	\$1,082,656,103	\$1,153,283,380
Market Value of Assets	\$949,618,075	\$1,017,928,371	\$1,089,105,843	\$1,171,685,150
Less: Undesignated Special Account	39,012,389	42,328,442	45,926,360	49,830,101
Less: Account for Medical Insurance Subsidy	<u>158,191,158</u>	<u>162,017,017</u>	164,567,422	<u>165,603,070</u>
Market Value of Assets Available for Benefits*	\$752,414,528	\$813,582,912	\$878,612,061	\$956,251,979
Funded Ratio for Pension Liability	79.51%	80.29%	81.15%	82.92%
A COLD CALL COLOR COLOR CALL CALL				
Active Active  Active  Active	\$151,174,479	\$162,611,362	\$174,076,322	\$185,493,385
Retired	126,430,848	148,502,898	166,237,431	180,420,817
Total Actuarial Present Value of	120,430,040	140,302,070	100,237,431	100,420,017
Post Retirement Medical Liabilities	\$277,605,327	\$311,114,260	\$340,313,753	\$365,914,202
Total Actuarial Present Value				
of Accrued Benefits	\$1,223,887,799	\$1,324,441,462	\$1,422,969,856	\$1,519,197,582
Market Value of Assets Available for Benefits*	\$910,605,686	\$975,599,929	\$1,043,179,483	\$1,121,855,049
Overall Funded Ratio	74.40%	73.66%	73.31%	73.85%

<sup>\*</sup> Includes all receivable contributions.

## Based on 8.5% Interest Assumption Firemen

	2005	2006	2007	2008
Vested Benefits	#202 49 <i>C</i> 252	¢220.771.010	¢240,000,557	#262 000 666
Participants Currently Receiving Payments	\$302,486,252 183,796,125	\$320,771,819	\$340,999,557	\$362,900,666
Other Participants	183,/90,123	<u>196,896,475</u>	209,304,258	221,593,760
Total Vested	\$486,282,377	\$517,668,294	\$550,303,815	\$584,494,426
Nonvested Benefits	<u>9,387,807</u>	10,503,057	11,810,725	12,585,282
Total Pension Liabilities	\$495,670,184	\$528,171,351	\$562,114,540	\$597,079,708
Market Value of Assets	\$476,770,307	\$511,760,115	\$549,095,882	\$591,990,942
Less: Undesignated Special Account	38,279,399	41,533,148	45,063,466	48,893,861
Less: Account for Medical Insurance Subsidy	85,963,015	88,497,997	90,691,649	92,434,083
· · · · · · · · · · · · · · · · · · ·				
Market Value of Assets Available for Benefits*	\$352,527,893	\$381,728,970	\$413,340,767	\$450,662,998
Funded Ratio for Pension Liability	71.12%	72.27%	73.53%	75.48%
Actuarial Present Value of Post Retirement Medical Liabilities				
Active	\$56,423,763	\$60,989,901	\$65,750,716	\$70,670,951
Retired	70,337,808	74,603,446	78,548,261	82,369,126
Total Actuarial Present Value of				
Post Retirement Medical Liabilities	\$126,761,571	\$135,593,347	\$144,298,977	\$153,040,077
Total Actuarial Present Value				
of Accrued Benefits	\$622,431,755	\$663,764,698	\$706,413,517	\$750,119,785
Market Value of Assets Available for Benefits*	\$438,490,908	\$470,226,967	\$504,032,416	\$543,097,081
Overall Funded Ratio	70.45%	70.84%	71.35%	72.40%

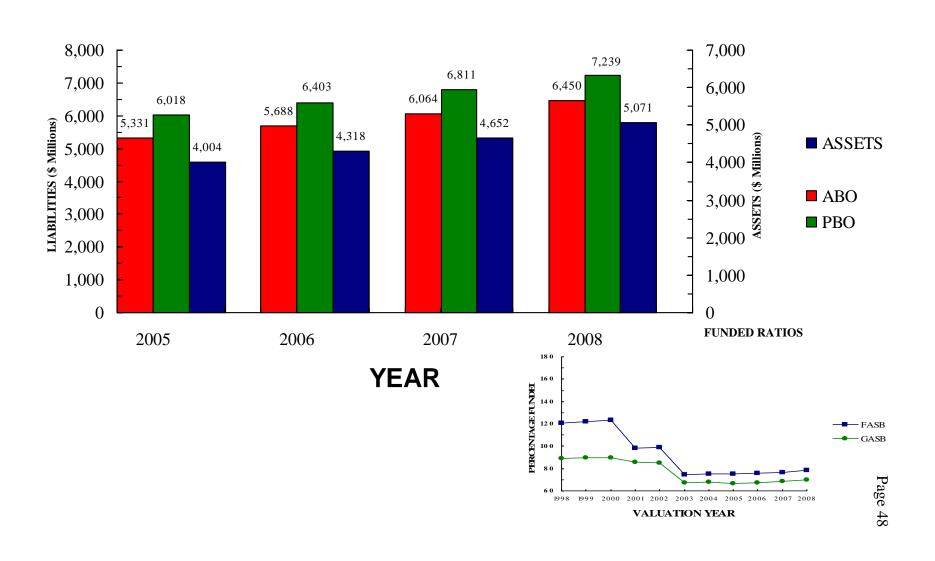
<sup>\*</sup> Includes all receivable contributions.

## Based on 8.5% Interest Assumption Total

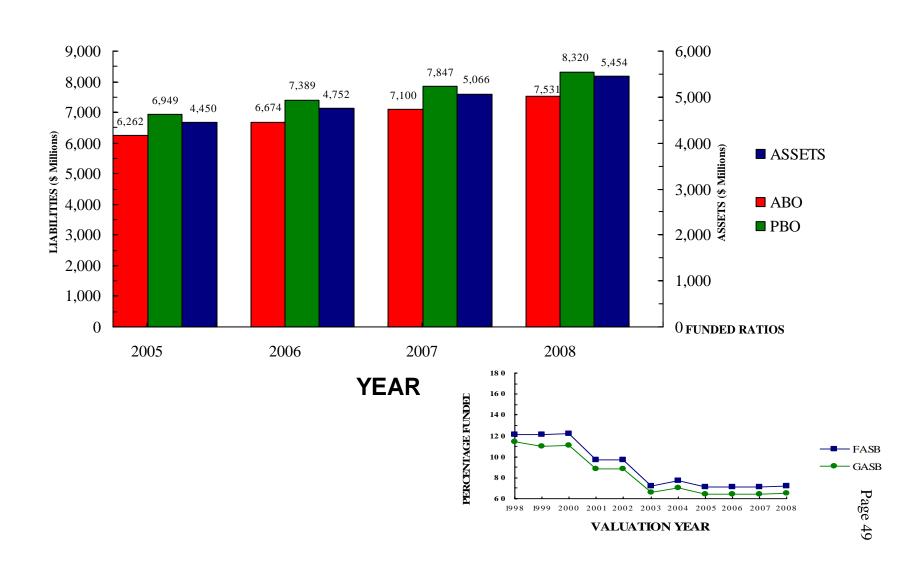
	2005	2006	2007	2008
Vested Benefits	00	## 0 <b>52 55</b> 0 0 <b>2</b> 0	#2.4 <b>52.</b> 42 <b>5</b> .440	# <b>2</b> 440 500 00 <b>7</b>
Participants Currently Receiving Payments	\$2,772,617,164	\$2,962,578,929	\$3,172,437,048	\$3,410,609,887
Other Participants	<u>2,490,800,457</u>	2,647,288,772	2,802,877,688	<u>2,942,448,625</u>
Total Vested	\$5,263,417,621	\$5,609,867,701	\$5,975,314,736	\$6,353,058,512
Nonvested Benefits	67,759,763	77,667,158	88,586,405	97,079,959
Total Pension Liabilities	\$5,331,177,384	\$5,687,534,859	\$6,063,901,141	\$6,450,138,471
Market Value of Assets	\$4,728,590,438	\$5,054,223,428	\$5,394,156,295	\$5,809,497,403
Less: Undesignated Special Account	278,295,751	301,950,890	327,616,717	355,464,139
Less: Account for Medical Insurance Subsidy	445,918,288	434,537,256	414,331,031	383,366,388
Market Value of Assets Available for Benefits*	\$4,004,376,399	\$4,317,735,282	\$4,652,208,547	\$5,070,666,876
Funded Ratio for Pension Liability	75.11%	75.92%	76.72%	78.61%
Actuarial Present Value of Post Retirement Medical Liabilities				
Active Active Of Post Retirement Medical Liabilities	\$331,734,226	\$358,288,806	\$385,963,022	\$414,721,878
Retired	598,940,776	628,213,672	650,577,767	666,625,018
Total Actuarial Present Value of	398,940,770	020,213,072	050,577,707	000,023,018
Post Retirement Medical Liabilities	\$930,675,002	\$986,502,478	\$1,036,540,789	\$1,081,346,896
Total Actuarial Present Value				
of Accrued Benefits	\$6,261,852,386	\$6,674,037,337	\$7,100,441,930	\$7,531,485,367
Market Value of Assets Available for Benefits*	\$4,450,294,687	\$4,752,272,538	\$5,066,539,578	\$5,454,033,264
Overall Funded Ratio	71.07%	71.21%	71.36%	72.42%

<sup>\*</sup>Includes all receivable contributions.

# NEW HAMPSHIRE RETIREMENT SYSTEM FUNDED RATIOS WITHOUT POSTRETIREMENT MEDICAL



# NEW HAMPSHIRE RETIREMENT SYSTEM FUNDED RATIOS WITH POSTRETIREMENT MEDICAL



#### SCHEDULE A

#### REGULAR VALUATION BALANCE SHEETS

#### VALUATION BALANCE SHEET SHOWING ASSETS AND LIABILITIES\* GROUP I - EMPLOYEES

	June 30, 2005 <sup>©</sup>			June 30, 2003 <sup>Ø</sup>	
	ASSETS				
Actuarial value of present assets:  (a) Credited to the membership classification  (i) Member Annuity Savings Fund (Market value)  (ii) State Annuity Accumulation Fund  (b) Special Account  Total present assets	\$ 784,511,233 445,905,892 (89,544,458)	\$ 1,140,872,667	\$ 632,859,340 559,393,867 (101,169,799)	\$ 1,091,083,408	
Present value of future member contributions: <ul><li>(a) Current members</li><li>(b) Future members</li></ul>	\$ 418,628,719 <u>832,060,138</u>	\$ 1,250,688,857	\$ 357,188,976 644,318,322	\$ 1,001,507,298	
Present value of future employer contributions:  (a) Towards the unfunded accrued liability  (b) Normal contributions  (i) Current members  (ii) Future members	\$ 30,528 645,525,463 	\$ 1,929,414,288	\$ 30,048 432,913,020 781,002,358	\$ 1,213,945,426	
Total assets		\$4,320,975,812		\$ 3,306,536,132	
	LIABILITIES				
Present value of allowances payable to beneficiaries currently on the roll and former members entitled to deferred allowances  Present value of benefits expected to become payable on		\$ 900,007,117		\$ 707,770,313	
account of current active and inactive members Present value of benefits expected to become payable on account of future active members  Total liabilities		1,905,717,916 \$ 1,515,250,779 \$ 4,320,975,812		1,487,321,317 \$ 1,111,444,502 \$ 3,306,536,132	

Excludes 401(h) Subtrust and postretirement medical liabilities. Based on the open group aggregate method. Based on an 8.5% interest rate.

Based on a 9.0% interest rate.

#### VALUATION BALANCE SHEET SHOWING ASSETS AND LIABILITIES\* GROUP I - TEACHERS

	June 3	June 30, 2005 <sup>©</sup>		0, 2003 <sup>ØØ</sup>
ASSETS				
Actuarial value of present assets:  (a) Credited to the membership classification  (i) Member Annuity Savings Fund (Market value)  (ii) State Annuity Accumulation Fund  (b) Special Account  Total present assets	\$ 961,625,574 630,543,162 (111,459,505)	\$ 1,480,709,231	\$ 790,914,550 798,972,828 (124,173,899)	\$ 1,465,713,479
Present value of future member contributions:  (a) Current members  (b) Future members  Present value of future employer contributions:  (a) Current members	\$ 394,523,830 721,447,848	\$ 1,115,971,678	\$ 329,305,539 541,759,349 \$ 199,921,384	\$ 871,064,888
<ul><li>(a) Current members</li><li>(b) Future members</li><li>Present value of future state contributions:</li></ul>	\$ 399,534,268	\$ 1,130,828,018	\$ 199,921,384 <u>328,491,519</u>	\$ 528,412,903
(a) Towards the unfunded accrued liability (b) Normal contributions (i) Current members (ii) Future members	\$ 0 215,133,836 393,773,559	\$ 608,907,395	\$ 108,567 107,649,976 176,880,049	\$ 284,638,592
Total assets		<u>\$ 4,336,416,322</u>		<u>\$ 3,149,829,862</u>
	LIABILITIES	,		
Present value of allowances payable to beneficiaries currently on the roll and former members entitled to deferred allowances		\$ 1,035,309,882		\$ 777,173,126
Present value of benefits expected to become payable on account of current active and inactive members		2,153,687,926		1,623,561,975
Present value of benefits expected to become payable on account of future active members		1,147,418,514		749,094,761
Total liabilities		\$ 4,336,416,322		\$ 3,149,829,862

Excludes 401(h) Subtrust and postretirement medical liabilities. Based on the open group aggregate method. Based on an 8.5% interest rate.

Based on a 9.0% interest rate.

#### VALUATION BALANCE SHEET SHOWING ASSETS AND LIABILITIES\* GROUP I - POLICEMEN

	June 3	0, 2005 <sup>ø</sup>	June 30, 2003 <sup>00</sup>	
	ASSETS			
Actuarial value of present assets:  (a) Credited to the membership classification  (i) Member Annuity Savings Fund (Market value)  (ii) State Annuity Accumulation Fund  (b) Special Account  Total present assets  Present value of future member contributions:  (a) Current members	\$ 302,189,650 416,636,053 (39,012,389) \$ 177,549,206	\$ 679,813,314	\$ 247,563,336 464,575,762 (48,305,146) \$ 166,211,571	\$ 663,833,952
(b) Future members	361,593,585	\$ 539,142,791	287,926,355	\$ 454,137,926
Present value of future assessments upon Subdivisions employing Group II members:  (b) Normal contributions  (i) Current members  (ii) Future members  Present value of future State contributions:  (a) Towards the unfunded accrued liability  (b) Normal Contributions  (i) Current members  (ii) Future members	207,808,733 423,130,403 \$ 0 111,897,010 227,839,448	\$ 630,939,136 \$ 339,736,458	143,303,452 248,192,569 \$ 502,308 \$ 77,163,397 133,642,153	\$ 391,496,021 \$ 211,307,858
Total assets	L LA DAY MOVE	\$ 2,189,631,699		\$ 1,720,775,757
Present value of allowances payable to beneficiaries currently on the roll and former members entitled to deferred allowances	LIABILITIES	\$ 556,649,958		\$ 452,451,290
Present value of benefits expected to become payable on account of current active and inactive members		912,981,578		752,027,490
Present value of benefits expected to become payable on account of future active members		720,000,163		516,296,977
Total liabilities		<u>\$ 2,189,631,699</u>		<u>\$ 1,720,775,757</u>

Excludes 401(h) Subtrust and postretirement medical liabilities. Based on the open group aggregate method. Based on an 8.5% interest rate.

Based on a 9.0% interest rate.

## VALUATION BALANCE SHEET SHOWING ASSETS AND LIABILITIES\* GROUP II - FIREMEN

GROUP II - PIREMEN				
	June 3	0, 2005 <sup>Ø</sup>	June 30	0, 2003 <sup>ØØ</sup>
	ASSETS			
Actuarial value of present assets:  (a) Credited to the membership classification  (i) Member Annuity Savings Fund (Market value)  (ii) State Annuity Accumulation Fund  (b) Special Account  Total present assets	\$ 152,401,215 219,756,014 (38,279,399)	\$ 333,877,830	\$ 124,472,812 241,382,599 (47,719,158)	\$ 318,136,253
Present value of future member contributions:  (a) Current members  (b) Future members	\$ 92,422,992 	\$ 249,356,151	\$ 75,025,610 105,960,844	\$ 180,986,454
Present value of future assessments upon Subdivisions employing Group II members:  (a) Current members  (b) Future members	\$ 118,269,126 200,451,531	\$ 318,720,657	\$ 85,686,168 120,772,360	\$ 206,458,528
Present value of future State contributions:  (a) Towards the unfunded accrued liability  (b) Normal contributions  (i) Current members  (ii) Future members	\$ 0 63,683,375 	\$ 171,618,81 <u>6</u>	\$ 269,133 46,138,706 65,031,270	\$ 111,439,10 <u>9</u>
Total assets		\$ 1,073,573,454		<u>\$ 817,020,344</u>
	LIABILITIE	S	1	
Present value of allowances payable to beneficiaries currently on the roll and former members entitled to deferred allowances		\$ 302,568,844		\$ 249,102,267
Present value of benefits expected to become payable on account of current active and inactive members		479,946,674		375,921,584
Present value of benefits expected to become payable on account of future active members		<u>291,057,936</u>		<u>191,996,493</u>
Total liabilities		<u>\$ 1,073,573,454</u>		<u>\$ 817,020,344</u>

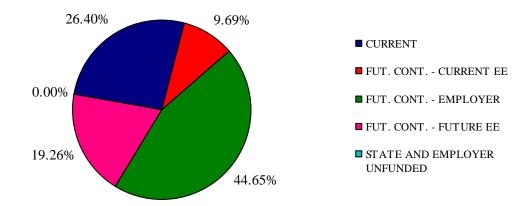
<sup>\*</sup> Excludes 401(h) Subtrust and postretirement medical liabilities. Based on the open group aggregate method.

Based on an 8.5% interest rate.

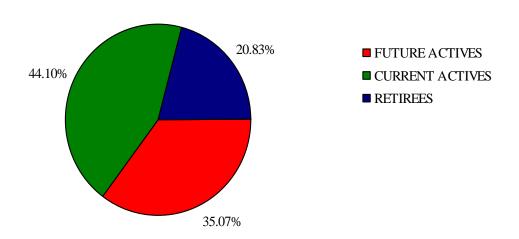
Based on a 9.0% interest rate.

#### **NHRS EMPLOYEES**

**ASSETS - JUNE 30, 2005** 

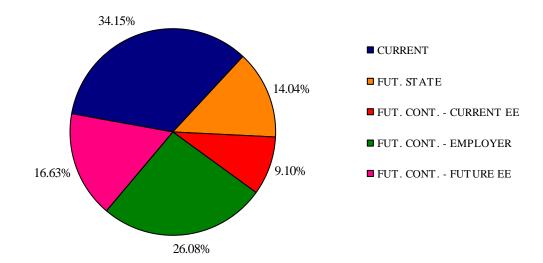


### NHRS EMPLOYEES

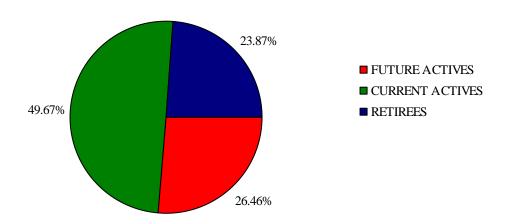


#### **NHRS TEACHERS**

**ASSETS - JUNE 30, 2005** 

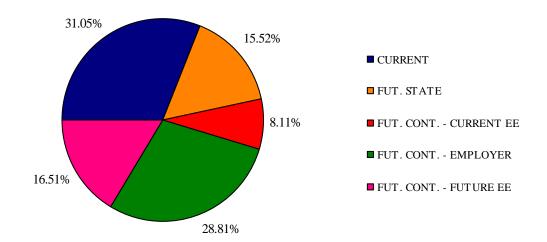


#### NHRS TEACHERS

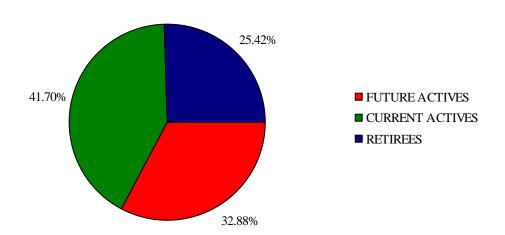


#### **NHRS POLICEMEN**

**ASSETS - JUNE 30, 2005** 

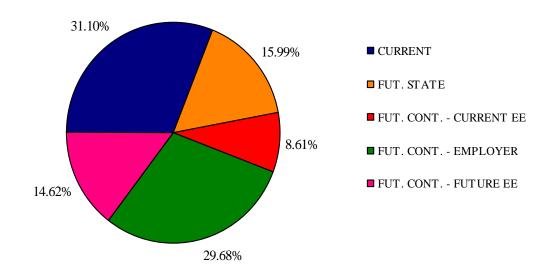


#### NHRS POLICEMEN

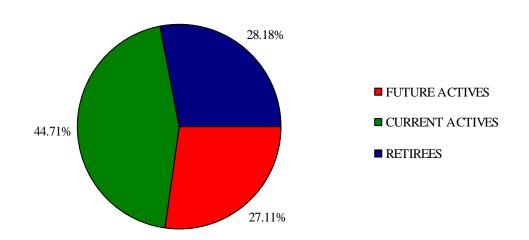


#### **NHRS FIREMEN**

ASSETS - JUNE 30, 2005



#### **NHRS FIREMEN**



#### SCHEDULE B

#### OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS

## OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS GROUP I - EMPLOYEES

INTEREST RATE: 8.5% per annum, compounded annually.

8.5% per annum, compounded annually on employee contributions.

(includes a 3.0% inflation component)

SEPARATIONS FROM ACTIVE SERVICE: Representative values of the assumed annual rates of withdrawal and vesting, death, disability, early retirement and normal retirement are as follows:

#### Annual Rate of

	Withdra	wal and		_		
	V	<sup>y</sup> estingø	De	<u>ath</u> *	Disabilit	<u>y</u> **
<u>Age</u>	<u>Men</u>	Women	<u>Men</u>	Women	<u>Men</u>	Women
25	7.00%	8.00%	.06%	.02%	.04%	.02%
30	6.50	7.00	.06	.03	.05	.02
35	5.50	6.00	.06	.04	.10	.05
40	4.50	5.00	.06	.07	.18	.08
45	4.00	4.00	.10	.10	.22	.12
50	3.50	3.50	.15	.14	.27	.18
55	3.00	3.00	.20	.18	.29	.22
59	2.20	2.60	.28	.22	.30	.24

#### Annual Rate of

		Early		Normal
<u>A</u>	<u>ge</u>	Retirement		Retirement
	<u>M</u>	en Wo	<u>Mei</u>	<u>women</u>
55	3.5	0% 3.0	00%	
58	7.7	7.0	00	
61			15.0	00% 15.00%
64			21.0	0 18.50
67			24.0	0 19.00
70			100.0	00 100.00

- withdrawal rates for the first two years of employment are multiplied by 2.0. In addition, we assumed
  for postretirement medical coverage that 80% of the deferred vested terminations will elect to receive a
  return of member contributions in lieu of an allowance.

  withdrawal rates for the first two years of employment are multiplied by 2.0. In addition, we assumed
  for postretirement medical coverage that 80% of the deferred vested terminations will elect to receive a
  return of member contributions in lieu of an allowance.

  where the second coverage that so the second coverage that the second coverage that so the second coverage that second coverag
- \* 98% are assumed to be ordinary death and 2% are assumed to be accidental death.
- \*\* 50% are assumed to be ordinary disability and 50% are assumed to be accidental disability.

SALARY INCREASES: Representative values of the assumed rates of future salary increases are as follows:

Annual Rate of
Salary Increases
13.75%
9.25
8.25
6.85
6.65
6.45
6.25
6.05
5.89

DEATHS AFTER RETIREMENT: According to the 1995 Buck Mortality Table set forward 1 year for men and women. A special mortality table was used for the period after disability retirement.

VALUATION METHOD: Open group aggregate. Gains and losses are spread over the average future careers of both current and future active members. If not well funded, the minimum normal contribution rate shall not be less than the rate determined using the target funding method with a funding goal of 115% over a 30 year horizon and an 8% interest rate to value the accumulated benefit obligation. The funding goal is the ratio of the market value of assets to the accumulated benefit obligation.

ASSET VALUATION METHOD: Five-year moving average of market values based on unit values. Under this method an artificial unit value is established as a starting point, and based on that value the starting number of units is determined. The increase in the number of units is determined by converting the net cash flow, excluding realized and unrealized gains and losses, into additional units based on the unit value at the beginning of the measurement period. At the end of the measurement period the number of units is divided into the market value of the fund to determine the new unit value. The average unit value over the past five years is multiplied by the number of units available at the valuation date to determine the value of assets at the valuation date. The actual value of assets used in the valuation is the middle value among book, market and the five-year average value, however, it cannot be lower than the five-year average value.

PERCENTAGE MARRIED: 80% of active members are assumed to be married and eligible for spouse's benefit with the husband assumed to be three years older than the wife. Of the married members 80% are assumed to elect spousal coverage for postretirement coverage.

SEVERANCE PAY: The valuation recognizes 100% of the effect of severance pay.

EXPENSES: None.

PROJECTION ASSUMPTIONS: The following additional assumptions were used in projecting the workforce. All other assumptions for projection purposes were identical to the valuation assumptions outlined above.

Workforce Size: Constant

New Entrant Distribution: The new entrants are assumed to be 35% male and 65% female distributed by age as follows:

		<u>Male</u>	<u>I</u>	<u>Female</u>
		2005 Compen-		2005 Compen-
<u>Age</u>	Percent	sation Level*	Percent	sation Level*
20	10.0%	\$ 21,000	5.0%	\$ 18,000
25	15.0	23,000	15.0	21,000
30	10.0	26,000	10.0	23,000
35	10.0	31,000	10.0	23,000
40	10.0	32,000	15.0	23,000
45	15.0	32,000	15.0	24,000
50	15.0	33,000	15.0	25,000
55	10.0	33,000	10.0	26,000
60	5.0	33,000	5.0	28,000

<sup>\*</sup>Increases at 5.0% per annum.

Investments: The total realized rate of return on adjusted assets was 8.5% per annum during the projection period.

## OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS GROUP I - TEACHERS

INTEREST RATE: 8.5% per annum, compounded annually.

8.5% per annum, compounded annually on employee contributions.

(includes a 3.0% inflation component)

SEPARATIONS FROM ACTIVE SERVICE: Representative values of the assumed annual rates of withdrawal and vesting, death, disability, early retirement and normal retirement are as follows:

		Ar	nual Rate o	<u>of</u>		
	Withdray	wal and				
	V	estingø	De	eath*	Dis	ability**
<u>Age</u>	<u>Men</u>	<u>Women</u>	<u>Men</u>	Women	<u>Men</u>	Women
25	4.50%	4.50%	.02%	.03%	.01%	.01%
30	4.00	4.00	.03	.03	.01	.01
35	3.50	3.50	.04	.03	.01	.01
40	2.75	3.00	.05	.05	.01	.01
45	2.75	2.00	.06	.05	.02	.02
50	3.50	2.50	.12	.10	.05	.05
55	4.00	3.50	.18	.15	.20	.10
59	4.40	3.90	.18	.15	.20	.01

	Annual Rate of			
	Early Ro	<u>etirement</u>	Normal R	<u>etirement</u>
<b>Age</b>	<b>Men</b>	Women	<u>Men</u>	Women
55	5.00%	4.00%		
58	13.00	9.00		
61			22.00%	18.00%
64			25.00	24.00
67			28.00	27.00
70			100.00	100.00

- Ø Withdrawal rates for first year of employment are multiplied by 3.0 and for second year of employment are multiplied by 2.0. In addition, we assumed for postretirement medical coverage that 80% of the deferred vested terminations will elect to receive a return of member contributions in lieu of an allowance.
- \* 98% are assumed to be ordinary death and 2% are assumed to be accidental death.
- \*\* 92% are assumed to be ordinary disability and 8% are assumed to be accidental disability.

SALARY INCREASES: Representative values of the assumed rates of future salary increases are as follows:

<u>Age</u>	Annual Rate of Salary Increases
25	8.75%
30	7.00
35	6.50
40	6.00
45	5.50
50	5.00
55	4.75
60	4.50
64	4.50

DEATHS AFTER RETIREMENT: According to the 1995 Buck Mortality Table set back 2 years for men. A special mortality table was used for the period after disability retirement.

VALUATION METHOD: Open group aggregate. Gains and losses are spread over the average future careers of both current and future active members. If not well funded, the minimum normal contribution rate shall not be less than the rate determined using the target funding method with a funding goal of 115% over a 30 year horizon and an 8% interest rate to value the accumulated benefit obligation. The funding goal is the ratio of the market value of assets to the accumulated benefit obligation.

ASSET VALUATION METHOD: Five-year moving average of market values based on unit values. Under this method an artificial unit value is established as a starting point, and based on that value the starting number of units is determined. The increase in the number of units is determined by converting the net cash flow, excluding realized and unrealized gains and losses, into additional units based on the unit value at the beginning of the measurement period. At the end of the measurement period the number of units is divided into the market value of the fund to determine the new unit value. The average unit value over the past five years is multiplied by the number of units available at the valuation date to determine the value of assets at the valuation date. The actual value of assets used in the valuation is the middle value among book, market and the five-year average value, however, it cannot be lower than the five-year average value.

PERCENTAGE MARRIED: 80% of active members are assumed to be married and eligible for spouse's benefit with the husband assumed to be three years older than the wife. Of the married members 80% are assumed to elect spousal coverage for postretirement coverage.

SEVERANCE PAY: The valuation recognizes 100% of the effect of severance pay.

EXPENSES: None.

PROJECTION ASSUMPTIONS: The following additional assumptions were used in projecting the workforce. All other assumptions for projection purposes were identical to the valuation assumptions outlined above.

Workforce Size: Constant.

New Entrant Distribution: The new entrants are assumed to be 25% male and 75% female distributed by age as follows:

<u>Male</u>			<u>Female</u>		
	2005 Compen-			20	005 Compen-
Percent	<u>S8</u>	ation Level*	Percent	S	ation Level*
25.0%	\$	33,000	35.0%	\$	32,000
20.0		34,000	20.0		36,000
15.0		38,000	10.0		38,000
15.0		41,000	10.0		38,000
5.0		43,000	10.0		38,000
10.0		43,000	10.0		40,000
10.0		43,000	5.0		41,000
	25.0% 20.0 15.0 15.0 5.0 10.0	25.0% \$ 25.0% \$ 20.0 15.0 15.0 5.0 10.0	Percent         2005 Compensation Level*           25.0%         \$ 33,000           20.0         34,000           15.0         38,000           15.0         41,000           5.0         43,000           10.0         43,000	Percent         sation Level*         Percent           25.0%         \$ 33,000         35.0%           20.0         34,000         20.0           15.0         38,000         10.0           15.0         41,000         10.0           5.0         43,000         10.0           10.0         43,000         10.0	Percent         sation Level*         Percent         20           25.0%         \$ 33,000         35.0%         \$           20.0         34,000         20.0         \$           15.0         38,000         10.0         \$           15.0         41,000         10.0         \$           5.0         43,000         10.0         \$           10.0         43,000         10.0         \$

<sup>\*</sup>Increases at 5.0% per annum.

Investments: The total realized rate of return on adjusted assets was 8.5% per annum during the projection period.

## OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS GROUP II - POLICEMEN

INTEREST RATE: 8.5% per annum, compounded annually.

8.5% per annum, compounded annually on employee contributions.

(includes a 3.0% inflation component)

SEPARATIONS FROM ACTIVE SERVICE: Representative values of the assumed annual rates of withdrawal, vesting, death, disability, and retirement are as follows:

			Annual Rate of			
<u>V</u>	<u>Vithdrawal</u>	Dea	<u>ath</u>	Disa	<u>bility</u>	
<u>Age</u>	and Vesting	<u>Ordinary</u>	<u>Accidental</u>	<u>Ordinary</u>	<u>Accidental</u>	<u>Retirement</u>
25	5.50%	.05%	.01%	.01%	.01%	
30	4.50	.06	.01	.02	.01	
35	3.50	.07	.01	.02	.15	
40	3.00	.10	.01	.06	.20	
45	3.00	.14	.01	.14	.25	27.00%
50	3.00	.16	.01	.20	.30	30.00
55	2.00	.24	.01	.36	.35	33.00
60	2.00	.30	.01	1.38	.40	27.00
64		.40	.01	2.19	.40	27.92
67						29.17
70						100.00

SALARY INCREASES: Representative values of the assumed rates of future salary increases are as follows:

	Annual Rate of
<u>Age</u>	Salary Increases
25	12.75%
30	8.25
35	7.00
40	5.75
45	5.75
50	5.75
55	5.75
60	5.75
64	5.75

DEATHS AFTER RETIREMENT: According to the 1995 George B. Buck Mortality Table set forward 1 year for men and women. A special mortality table was used for the period after disability retirement.

NORMAL RETIREMENT: Age 45 with 20 years of service or age 60 if earlier.

VALUATION METHOD: Open group aggregate. Gains and losses are spread over the average future careers of both current and future active members. If not well funded, the minimum normal contribution rate shall not be less than the rate determined using the target funding method with a funding goal of 115% over a 30 year horizon and an 8% interest rate to value the accumulated benefit obligation. The funding goal is the ratio of the market value of assets to the accumulated benefit obligation.

ASSET VALUATION METHOD: Five-year moving average of market values based on unit values. Under this method an artificial unit value is established as a starting point, and based on that value the starting number of units is determined. The increase in the number of units is determined by converting the net cash flow, excluding realized and unrealized gains and losses, into additional units based on the unit value at the beginning of the measurement period. At the end of the measurement period the number of units is divided into the market value of the fund to determine the new unit value. The average unit value over the past five years is multiplied by the number of units available at the valuation date to determine the value of assets at the valuation date. The actual value of assets used in the valuation is the middle value among book, market and the five-year average value, however, it cannot be lower than the five-year average value.

PERCENTAGE MARRIED: 50% of active members are assumed to be married and eligible for spouse's benefit with the husband assumed to be three years older than the wife. 40% of active members are assumed to be married and elect spousal coverage for postretirement medical benefits.

SEVERANCE PAY: The valuation recognizes 100% of the effect of severance pay.

EXPENSES: None.

PROJECTION ASSUMPTIONS: The following additional assumptions were used in projecting the workforce. All other assumptions for projection purposes were identical to the valuation assumptions outlined above.

Workforce Size: Constant.

New Entrant Distribution: The new entrants are assumed to be all males distributed by age as follows:

		2005 Compensation	n
<u>Age</u>	<u>Percent</u>	Level*	_
20	5.0%	\$ 29,000	
25	40.0	33,000	
30	20.0	33,000	
35	15.0	33,000	
40	5.0	33,000	
45	5.0	33,000	
50	5.0	35,000	
55	5.0	37,000	

<sup>\*</sup>Increases at 5.0% per annum.

Investments: The total realized rate of return on adjusted assets was 8.5% per annum during the projection period.

### OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS GROUP II - FIREMEN

INTEREST RATE: 8.5% per annum, compounded annually.

8.5% per annum, compounded annually on employee contributions.

(includes a 3.0% inflation component)

SEPARATIONS FROM ACTIVE SERVICE: Representative values of the assumed annual rates of withdrawal and vesting, death, disability, and retirement are as follows:

#### Annual Rate of

	Withdrawal and	Dea	th	Disab	vility	
<u>Age</u>	Vesting	Ordinary Ordinary	Accidental	Ordinary	Accidental	Retirement
25	1.00%	.04%	.02%	.02%	.05%	
30	1.00	.04	.02	.02	.07	
35	1.00	.05	.02	.02	.09	
40	1.00	.07	.02	.02	.20	
45	1.00	.10	.02	.02	.30	15.00%
50	1.00	.11	.02	.02	.35	15.00
55	1.00	.17	.02	.02	.40	25.00
60		.21	.02	.02	.40	30.00
64		.28	.02	.02	.40	26.00
67						25.00
70						100.00

SALARY INCREASES: Representative values of the assumed rates of future salary increases are as follows:

	Annual Rate of
<u>Age</u>	Salary Increases
25	13.00%
30	10.00
35	8.00
40	6.25
45	6.25
50	6.25
55	6.25
60	6.25
64	6.25

DEATHS AFTER RETIREMENT: According to the 1989 George B. Buck Mortality Table setback 3 years for males. A special mortality table was used for the period after disability retirement.

NORMAL RETIREMENT: Age 45 with 20 years of service or age 60 if earlier.

VALUATION METHOD: Open group aggregate. Gains and losses are spread over the average future careers of both current and future active members. If not well funded, the minimum normal contribution rate shall not be less than the rate determined using the target funding method with a funding goal of 115% over a 30 year horizon and an 8% interest rate to value the accumulated benefit obligation. The funding goal is the ratio of the market value of assets to the accumulated benefit obligation.

ASSET VALUATION METHOD: Five-moving average of market values based on unit values. Under this method an artificial unit value is established as a starting point, and based on that value the starting number of units is determined. The increase in the number of units is determined by converting the net cash flow, excluding realized and unrealized gains and losses, into additional units based on the unit value at the beginning of the measurement period. At the end of the measurement period the number of units is divided into the market value of the fund to determine the new unit value. The average unit value over the past five years is multiplied by the number of units available at the valuation date to determine the value of assets at the valuation date. The actual value of assets used in the valuation is the middle value among book, market and the five-year average value, however, it cannot be lower than the five-year average value.

PERCENTAGE MARRIED: 50% of active members are assumed to be married and eligible for spouse's benefit with the husband assumed to be three years older than the wife. 40% of active members assumed to be married and elect spousal coverage for postretirement medical benefits.

SEVERANCE PAY: The valuation recognizes 100% of the effect of severance pay.

EXPENSES: None.

PROJECTION ASSUMPTIONS: The following additional assumptions were used in projecting the workforce. All other assumptions for projection purposes were identical to the valuation assumptions outlined above.

Workforce Size: Constant.

New Entrant Distribution: The new entrants are assumed to be all males distributed by age as follows:

		2005 Compensation
<u>Age</u>	Percent	Level*
20	10.0%	\$ 39,000
25	25.0	39,000
30	25.0	40,000
35	20.0	40,000
40	10.0	42,000
45	10.0	46,000

<sup>\*</sup>Increases at 5.0% per annum.

Investments: The total realized rate of return on adjusted assets was 8.5% per annum during the projection period.

# SCHEDULE C

# BRIEF SUMMARY OF PRINCIPAL PLAN PROVISIONS AS INTERPRETED FOR VALUATION PURPOSES

# BRIEF SUMMARY OF PRINCIPAL PLAN PROVISIONS AS INTERPRETED FOR VALUATION PURPOSES

#### 1 - GENERAL

Plan Name New Hampshire Retirement System.

Effective Date July 1, 1967.

Membership Prospectively, any employee, teacher, permanent policeman

or permanent fireman becomes a member as a condition of employment; except in the case of elected officials or officials appointed for fixed terms, membership is optional.

Average Final

Compensation (AFC) Average annual compensation during highest 3 years.

#### 2 - BENEFITS

#### GROUP I MEMBERS (EMPLOYEES AND TEACHERS)

Service Retirement

Eligibility Age 60.

Amount of Benefit A member annuity equal to the actuarial equivalent of the

member's accumulated contributions plus a state annuity.

Prior to the member's attainment of age 65, the state annuity, together with the member annuity, shall be equal to 1/60 of

AFC multiplied by years of service.

After attainment of age 65, the state annuity, together with the member annuity, shall be equal to 1/66 of AFC

multiplied by years of service.

Reduced Service Retirement

Eligibility Age plus service of at least 70, provided the member has at

least 20 years of service or age 50 with at least 10 years of

service.

Amount of Benefit Service retirement benefit reduced by the following percents

for each month that benefits commence prior to age 60.

	Monthly
Years of	Percent
Service at Retirement	Reduction
35 or more	1/8 of 1%
30 - 35	1/4 of 1%
25 - 30	1/3 of 1%
20 - 25	5/12 of 1%
less than 20	5/9 of 1%

#### Ordinary Disability Retirement

Eligibility

10 years of service and permanent disability.

Amount of Benefit

Service retirement benefit if age 60, otherwise a member annuity plus a state annuity which together equals 1.5% of AFC multiplied by the number of years of creditable service at the time of disability; provided that the benefit shall not be less than 25% of AFC.

Accidental Disability Retirement

Eligibility

Permanently disabled due to accident occurring while in the performance of duty.

Amount of Benefit

Service retirement benefit if age 60, otherwise a member annuity plus a state annuity which together equals 50% of AFC; provided that the benefit shall not be less than 50% of AFC.

Ordinary Death Benefit

Eligibility

Death, other than accidental death.

Amount of Benefit

- (a) If 10 years of service or if eligible for service retirement and,
  - (i) if survived by a spouse, 50% of the service retirement benefit payable until death or remarriage;
  - (ii) if no surviving spouse or member designated a beneficiary other than his spouse, a lump sum equal to the greater of \$3,600 or the member's annual compensation.

(b) If less than 10 years of service and if not eligible for service retirement, a lump sum equal to the greater of \$3,600 or the member's annual compensation.

Accidental Death Benefit

Eligibility

Accidental death occurring while in the performance of duty.

Amount of Benefit

Benefit equal to 50% of AFC.

Vested Deferred Retirement

Eligibility

10 years of service, if no withdrawal of contributions.

Amount of Benefit

Payable at age 60, a member annuity plus a state annuity which together equals the service retirement benefit that would be payable after age 60. The benefit changes at age 65 as for service retirement. At any time after attainment of age 50, a member may have his benefit commence early, however, the benefit will be reduced for early commencement using the same early retirement reduction factors as described under reduced service retirement.

Return of Members' Contributions

- (a) Upon termination of service other than for retirement or death, and if vested deferred retirement has not been elected, the member's accumulated contributions are returned to him.
- (b) Upon accidental death or upon other death for which no surviving spouse's benefit is payable, the member's accumulated contributions will be paid to the member's beneficiary or estate.
- (c) Upon death prior to age 60 of a member on deferred vested retirement, the member's accumulated contributions will be paid to the member's beneficiary or estate.
- (d) Upon death of a retired member (or the survivor of a retired member, if an optional benefit was elected), the excess of his accumulated contributions at retirement over the benefits received by the retired member (and, in the case of election of an optional benefit, the benefits received by the survivor) will be paid to the beneficiary or estate of the member.

Special Provisions Applicable to Certain Members Transferred from the Employees' Retirement System of the State of New Hampshire

Certain employee members transferred to the New Hampshire Retirement System effective January 1, 1976 have elected to have their benefits calculated on the basis of the provisions of the Predecessor System.

#### GROUP II MEMBERS (POLICEMEN AND FIREMEN)

Service Retirement

Eligibility Age 45 and 20 years service or age 60 if earlier (age 65

before July 1, 1989) regardless of the number of years of

service.

Amount of Benefit A member annuity equal to the actuarial equivalent of the

member's accumulated contributions plus a state annuity which together with the member annuity is equal to 2-1/2% of AFC times years of service, but not more than 40 years. Effective July 1, 1992, if a member retires on a full service retirement, the minimum annual benefit (prior to reduction for optional form of payment) is \$5,200. The minimum annual benefit is reduced for benefits payable from Social

Security and from any public body benefits.

Ordinary Disability Retirement

Eligibility 10 years service and permanent disability.

Amount of Benefit A member annuity plus a state annuity which together equals

the service retirement benefit; provided that the benefit shall not be less than 25% of the member's annual compensation.

Accidental Disability Retirement

Eligibility Permanent disability occurring while in the performance of

duty.

Amount of Benefit A member annuity as for service retirement plus a state

annuity which together with the member annuity is equal to 2/3 of AFC. If a member has completed more than 26-2/3 years of service, then a supplemental disability allowance will also be paid equal to 2-1/2% of AFC multiplied by service in excess of 26-2/3 years but not in excess of 40

years.

Ordinary Death Benefit

Eligibility Death other than accidental death.

\$ 3,600

\$10,000

#### Amount of Benefit

- (a) If 10 years of service or if eligible for service retirement and,
  - (i) if survived by a spouse, 50% of the service retirement benefit payable until death or remarriage.
  - (ii) if no surviving spouse or member designated a beneficiary other than his spouse, a lump sum equal to the greater of \$3,600 or member's annual compensation.
- (b) If less than 10 years of service and not eligible for service retirement, a lump sum equal to the greater of \$3,600 or the member's annual compensation.

Accidental Death Benefit

Eligibility

Amount of Benefit

Death after Retirement

Accidental death occurring while in the performance of duty.

50% of the annual rate of compensation payable first to spouse until death or remarriage, then to children under age 18 or if no spouse or children, to dependent parent.

#### Retirement Prior to April 1, 1987

Lump sum of \$3,600 unless accidental disability retirement, then surviving spouse receives 50% of the retired member's disability benefits payable until death or remarriage.

#### Retirement on or after April 1, 1987

Benefit payable to surviving spouse until death or remarriage equal to 50% of the member's service, ordinary disability or accidental disability retirement allowance if member was married on the date of retirement plus a lump sum. The lump sum shall be equal to:

If retired prior to July 1, 1988: If retired on or after July 1, 1988: If Group II member as of June 30, 1988 If becomes a Group II member after June 30, 1988 and prior to July 1, 1993

\$3,600

#### <u>Special Death Benefit - Old Firemen's</u> <u>System</u>

Continuance of duty-connected disability benefits to spouse of deceased retired member payable until death or remarriage.

Vested Deferred Retirement

Eligibility

Amount of Benefit

Return of Members' Contributions 10 years of service, if no withdrawal of contributions.

A benefit determined as for service retirement payable when the member would be age 45 with 20 years of service or age 60 if earlier.

- (a) Upon termination of service other than for retirement or death, and if vested deferred retirement has not been elected, the member's accumulated contributions are returned to the member.
- (b) Upon accidental death or upon other death for which no surviving spouse's benefit is payable, the member's accumulated contributions will be paid to the member's beneficiary or estate.
- (c) Upon death of a member on vested deferred retirement prior to the time benefits commence, the member's accumulated contributions will be paid to the member's beneficiary or estate.
- (d) Upon death of the survivor of a member retired on accidental disability and his spouse in receipt of the accidental disability survivor benefit, the excess of the member's accumulated contributions at retirement over the benefits received by the member and his spouse will be paid to his beneficiary or estate.
- (e) Upon death of a retired member (or the survivor of a retired member, if an optional benefit was elected), the excess of accumulated contributions at retirement

over the benefits received by the retired member (and, in the case of election of an optional benefit, the benefits received by the survivor) will be paid to the beneficiary or estate of the member.

Benefits for Call Firemen

Accidental Disability Annual benefit not to exceed \$1,250 if permanently disabled

while in the performance of duty.

Accidental Death Annual benefit not to exceed \$1,250 if death as a result of

injury received while in the performance of duty. Paid to spouse until death or remarriage, then to children until age 18 or if no spouse or children under 18, to the dependent parent.

Death after Accidental

Disability Upon death of a call fireman receiving accidental disability

benefits, the benefit will continue to be paid to the spouse

until death or remarriage, then to children under age 18.

#### 3 - CONTRIBUTIONS

#### GROUP I MEMBERS (EMPLOYEES AND TEACHERS)

By Members

5.00% of compensation.

By Employer

For Employee Members 100% of the normal contribution rate for their employees

plus accrued liability contributions, if any.

For Teacher Members 65% of the normal contribution rate for their employees plus

65% of the accrued liability contributions, if any.

By the State

For Employee Members 100% of the normal contribution rate for its employees plus

accrued liability contributions, plus any delinquent accrued

liability contributions.

For Teacher Members 35% of the normal contribution rate for the employees of the

employing subdivisions plus 35% of the accrued liability contributions, if any, plus any delinquent accrued liability contributions. In the case of teacher members employed by the state, the state shall pay 100% of both the normal and

accrued liability contributions, if any.

#### GROUP II MEMBERS (POLICEMEN AND FIREMEN)

By Members

Policemen and Firemen 9.30% of compensation.

Call Firemen \$6 per year (not refundable).

By Employing Subdivisions

65% of the normal contribution rate for their employees plus

65% of the accrued liability contributions, if any.

By the State

35% of the normal contribution rate for the employees of the employing subdivision plus 35% accrued liability contributions, if any, plus any delinquent accrued liability contributions. In the case of Group II members employed by the state, the state shall pay 100% of both the normal and

accrued liability contributions, if any.

# SCHEDULE D

TABLES OF EMPLOYEE DATA

TABLE 1

Number and Annual Compensation of Male Employees
By Fifth Age and Service Category
as of June 30, 2005

					Serv	vice							-	Γotal
Age	1	5	10	15	20	25	30	35	40	45	50	55	59	
20	142	12	0	0	0	0	0	0	0	0	0	0	0	154
	1,942,737	330,611	0	0	0	0	0	0	0	0	0	0	0	2,273,348
25	345	163	3	0	0	0	0	0	0	0	0	0	0	511
	6,732,254	5,125,524	139,146	0	0	0	0	0	0	0	0	0	0	11,996,924
30	316	276	57	1	0	0	0	0	0	0	0	0	0	650
	8,456,418	9,810,735	2,139,350	48,304	0	0	0	0	0	0	0	0	0	20,454,807
35	341	410	203	81	12	0	0	0	0	0	0	0	0	1,047
	10,552,442	15,656,345	8,171,705	3,276,839	463,864	0	0	0	0	0	0	0	0	38,121,195
40	373	390	200	203	131	4	0	0	0	0	0	0	0	1,301
	11,958,340	15,424,739	8,754,937	8,993,606	5,773,811	194,728	0	0	0	0	0	0	0	51,100,161
45	370	497	254	226	179	94	13	0	0	0	0	0	0	1,633
	11,770,054	19,364,407	11,083,657	9,831,158	8,365,828	3,987,328	615,580	0	0	0	0	0	0	65,018,012
50	348	475	279	268	199	178	100	18	0	0	0	0	0	1,865
	10,283,123	17,837,625	12,094,898	12,498,055	9,402,356	8,372,462	4,813,260	904,572	0	0	0	0	0	76,206,351
55	291	429	243	260	174	142	189	67	7	0	0	0	0	1,802
	8,235,276	16,522,484	10,473,208	12,218,582	8,194,656	7,584,073	9,338,822	3,690,563	448,233	0	0	0	0	76,705,897
60	158	345	179	170	153	66	93	71	24	2	0	0	0	1,261
	4,206,198	12,378,464	7,484,278	7,448,899	6,935,507	3,366,949	5,071,085	4,266,023	1,455,495	145,362	0	0	0	52,758,260
63	34	108	45	34	42	10	15	8	7	3	1	0	0	307
	974,984	3,755,067	1,823,667	1,373,937	2,121,908	503,553	808,035	440,738	257,542	366,624	79,021	0	0	12,505,076
66	10	27	18	9	12	2	2	1	1	0	0	0	0	82
	203,581	954,773	654,169	395,695	583,035	65,278	97,757	75,562	32,463	0	0	0	0	3,062,313
70	17	34	21	14	9	1	0	1	1	1	0	1	0	100
	299,968	1,100,238	727,416	489,022	459,467	54,431	0	40,117	58,641	33,806	0	45,796	0	3,308,902
74	8	10	6	4	5	2	0	0	0	0	0	0	0	35
	156,202	246,493	187,725	207,155	156,039	84,975	0	0	0	0	0	0	0	1,038,589
Total	2,753	3,176	1,508	1,270	916	499	412	166	40	6	1	1	0	10,748
	75,771,577	118,507,505	63,734,156	56,781,252	42,456,471	24,213,777	20,744,539	9,417,575	2,252,374	545,792	79,021	45,796	0	414,549,835

TABLE 2

Number and Annual Compensation of Female Employees
By Fifth Age and Service Category
as of June 30, 2005

					Serv	vice							7	Γotal
Age	1	5	10	15	20	25	30	35	40	45	50	55	59	
20	193	14	0	0	0	0	0	0	0	0	0	0	0	207
	2,320,866	300,478	0	0	0	0	0	0	0	0	0	0	0	2,621,344
25	574	243	4	0	0	0	0	0	0	0	0	0	0	821
	9,225,224	6,570,377	119,101	0	0	0	0	0	0	0	0	0	0	15,914,702
30	405	375	81	1	0	0	0	0	0	0	0	0	0	862
	7,653,350	10,991,441	2,575,913	31,792	0	0	0	0	0	0	0	0	0	21,252,496
35	451	552	182	108	8	0	0	0	0	0	0	0	0	1,301
	8,342,451	16,632,250	6,671,640	3,942,714	348,624	0	0	0	0	0	0	0	0	35,937,679
40	603	741	305	244	120	7	0	0	0	0	0	0	0	2,020
	11,990,120	22,311,799	10,732,723	9,687,436	4,662,228	276,772	0	0	0	0	0	0	0	59,661,078
45	669	994	395	262	189	110	16	0	0	0	0	0	0	2,635
	13,400,526	27,370,181	13,883,885	10,160,886	7,814,533	4,494,889	606,251	0	0	0	0	0	0	77,731,151
50	580	970	508	384	247	165	88	17	0	0	0	0	0	2,959
	12,363,933	27,263,430	17,285,592	14,452,392	9,685,109	7,098,956	3,919,532	784,457	0	0	0	0	0	92,853,401
55	412	730	429	414	288	147	96	43	8	0	0	0	0	2,567
	8,874,797	21,466,188	14,881,873	15,204,085	10,700,065	6,505,706	4,392,718	1,784,996	350,623	0	0	0	0	84,161,051
60	219	410	278	287	252	135	67	36	9	1	0	0	0	1,694
	5,196,619	11,973,508	9,648,593	9,960,141	8,489,135	5,214,415	3,021,167	1,571,300	530,818	32,572	0	0	0	55,638,268
63	32	92	58	65	67	26	18	6	1	5	1	0	0	371
	720,629	2,783,681	1,795,631	2,155,653	2,278,122	918,797	812,290	256,060	11,213	207,485	43,154	0	0	11,982,715
66	5	27	21	8	14	8	5	2	2	0	0	0	0	92
	81,006	727,111	723,215	248,937	556,401	352,479	224,911	70,096	84,565	0	0	0	0	3,068,721
70	13	19	24	15	8	11	3	2	5	1	1	1	0	103
	296,261	618,023	647,141	364,663	222,002	407,973	88,379	73,557	210,116	22,388	19,477	38,607	0	3,008,587
74	4	4	3	8	7	5	1	1	1	0	0	0	0	34
-	46,255	151,030	84,146	287,819	241,660	147,107	21,373	30,737	27,486	0	0	0	0	1,037,613
Total	4,160	5,171	2,288	1,796	1,200	614	294	107	26	7	2	1	0	15,666
	80,512,037	149,159,497	79,049,453	66,496,518	44,997,879	25,417,094	13,086,621	4,571,203	1,214,821	262,445	62,631	38,607	0	464,868,806

TABLE 3

Number and Annual Compensation of Male Teachers
By Fifth Age and Service Category
as of June 30, 2005

					Serv	vice							•	Total
Age	1	5	10	15	20	25	30	35	40	45	50	55	59	
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	154	99	0	0	0	0	0	0	0	0	0	0	0	253
	4,578,624	3,473,341	0	0	0	0	0	0	0	0	0	0	0	8,051,965
30	135	288	43	0	0	0	0	0	0	0	0	0	0	466
	4,407,816	10,811,067	1,895,151	0	0	0	0	0	0	0	0	0	0	17,114,034
35	92	249	185	16	0	0	0	0	0	0	0	0	0	542
	3,306,508	10,081,803	9,120,090	821,693	0	0	0	0	0	0	0	0	0	23,330,094
40	67	174	137	110	21	1	0	0	0	0	0	0	0	510
	2,527,002	7,546,985	6,788,040	5,874,353	1,198,694	52,600	0	0	0	0	0	0	0	23,987,674
45	57	119	100	92	120	36	0	0	0	0	0	0	0	524
	2,274,042	5,126,521	4,911,600	4,952,579	6,762,948	2,221,295	0	0	0	0	0	0	0	26,248,985
50	68	128	70	73	114	132	62	0	0	0	0	0	0	647
	2,465,547	5,627,788	3,626,771	3,961,360	6,570,481	7,866,104	3,722,101	0	0	0	0	0	0	33,840,152
55	54	91	93	78	95	145	214	98	3	0	0	0	0	871
	2,134,018	4,149,929	4,808,839	4,365,952	5,503,426	8,601,923	12,974,308	6,139,742	176,282	0	0	0	0	48,854,419
60	40	50	48	45	75	54	93	125	30	5	0	0	0	565
	1,824,825	2,412,515	2,495,252	2,460,581	4,387,786	3,158,517	5,669,379	8,216,315	2,083,645	339,315	0	0	0	33,048,130
63	5	11	7	10	6	6	5	7	7	3	1	0	0	68
	134,108	545,009	353,497	600,225	332,908	313,775	322,623	516,948	449,542	202,985	60,391	0	0	3,832,011
66	0	5	1	1	0	0	0	1	2	0	0	0	0	10
	0	312,591	52,150	61,000	0	0	0	60,600	165,268	0	0	0	0	651,609
70	0	3	0	0	0	1	0	0	0	0	0	0	0	4
	0	159,155	0	0	0	74,366	0	0	0	0	0	0	0	233,521
74	0	0	1	0	0	0	0	0	0	1	0	0	0	2
	0	0	62,462	0	0	0	0	0	0	47,327	0	0	0	109,789
Total	672	1,217	685	425	431	375	374	231	42	9	1	0	0	4,462
	23,652,490	50,246,704	34,113,852	23,097,743	24,756,243	22,288,580	22,688,411	14,933,605	2,874,737	589,627	60,391	0	0	219,302,383

TABLE 5

Number and Annual Compensation of Male Policemen
By Fifth Age and Service Category
as of June 30, 2005

					Serv	vice							-	Γotal
Age	1	5	10	15	20	25	30	35	40	45	50	55	59	
20	40	0	0	0	0	0	0	0	0	0	0	0	0	40
	678,865	0	0	0	0	0	0	0	0	0	0	0	0	678,865
25	276	170	0	0	0	0	0	0	0	0	0	0	0	446
	7,427,696	8,206,388	0	0	0	0	0	0	0	0	0	0	0	15,634,084
30	149	379	91	0	0	0	0	0	0	0	0	0	0	619
	4,378,885	18,374,123	5,119,687	0	0	0	0	0	0	0	0	0	0	27,872,695
35	143	276	299	72	0	0	0	0	0	0	0	0	0	790
	4,271,631	13,380,408	17,033,765	4,054,417	0	0	0	0	0	0	0	0	0	38,740,221
40	83	155	144	236	118	10	0	0	0	0	0	0	0	746
	2,395,631	6,789,466	7,492,729	14,319,753	8,089,682	747,839	0	0	0	0	0	0	0	39,835,100
45	66	81	77	115	207	71	0	0	0	0	0	0	0	617
	2,129,441	3,652,638	3,913,955	6,749,496	14,123,766	5,620,401	0	0	0	0	0	0	0	36,189,697
50	59	68	43	42	62	55	29	0	0	0	0	0	0	358
	2,303,363	3,155,365	2,147,894	2,211,459	4,034,813	4,097,344	2,452,605	0	0	0	0	0	0	20,402,843
55	45	43	36	29	27	20	13	1	0	0	0	0	0	214
	1,523,382	1,987,183	1,792,839	1,429,263	1,576,492	1,473,870	1,027,369	69,207	0	0	0	0	0	10,879,605
60	15	17	14	13	13	5	5	2	1	0	0	0	0	85
	593,153	735,158	724,636	618,894	699,483	300,341	339,599	159,952	103,919	0	0	0	0	4,275,135
63	7	2	4	1	2	0	0	0	0	0	0	0	0	16
	254,646	126,118	175,409	62,253	101,778	0	0	0	0	0	0	0	0	720,204
66	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	0	52,150	0	0	0	0	0	0	0	0	0	0	0	52,150
70	2	1	1	0	0	0	0	0	0	0	0	0	0	4
	62,726	59,160	35,326	0	0	0	0	0	0	0	0	0	0	157,212
74	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	885	1,193	709	508	429	161	47	3	1	0	0	0	0	3,936
	26,019,419	56,518,157	38,436,240	29,445,535	28,626,014	12,239,795	3,819,573	229,159	103,919	0	0	0	0	195,437,811

TABLE 4

Number and Annual Compensation of Female Teachers
By Fifth Age and Service Category
as of June 30, 2005

					Serv	vice							,	Γotal
Age	1	5	10	15	20	25	30	35	40	45	50	55	59	
20	2	0	0	0	0	0	0	0	0	0	0	0	0	2
	15,926	0	0	0	0	0	0	0	0	0	0	0	0	15,926
25	652	386	1	0	0	0	0	0	0	0	0	0	0	1,039
	18,679,655	12,878,906	45,514	0	0	0	0	0	0	0	0	0	0	31,604,075
30	375	968	132	0	0	0	0	0	0	0	0	0	0	1,475
	11,724,405	34,027,497	5,454,596	0	0	0	0	0	0	0	0	0	0	51,206,498
35	229	577	482	54	1	0	0	0	0	0	0	0	0	1,343
	7,678,296	21,774,409	20,180,371	2,569,943	43,876	0	0	0	0	0	0	0	0	52,246,895
40	239	400	254	308	111	0	0	0	0	0	0	0	0	1,312
	8,209,258	15,798,953	11,680,202	15,376,182	5,640,821	0	0	0	0	0	0	0	0	56,705,416
45	256	598	317	242	396	81	1	0	0	0	0	0	0	1,891
	8,956,651	23,920,184	14,628,790	12,286,863	20,871,428	4,234,764	46,031	0	0	0	0	0	0	84,944,711
50	183	580	471	364	348	384	139	7	0	0	0	0	0	2,476
	6,558,753	24,177,930	22,289,663	18,678,079	18,875,265	20,948,619	7,768,520	397,759	0	0	0	0	0	119,694,588
55	111	380	412	463	453	299	467	202	14	0	0	0	0	2,801
	4,083,314	16,289,572	19,742,054	24,161,539	24,535,924	16,872,349	26,412,269	11,792,265	777,551	0	0	0	0	144,666,837
60	43	138	160	218	326	218	133	175	27	6	0	0	0	1,444
	1,773,154	6,293,107	7,999,169	11,485,680	17,603,284	12,692,932	8,237,499	10,707,095	1,541,778	406,891	0	0	0	78,740,589
63	5	14	12	26	44	25	20	7	7	4	0	0	0	164
	170,716	587,551	597,013	1,340,381	2,391,019	1,460,876	1,241,284	405,352	508,061	249,784	0	0	0	8,952,037
66	1	5	7	2	7	5	7	1	2	0	0	0	0	37
	44,138	217,533	349,004	74,657	312,085	298,542	413,237	51,750	108,889	0	0	0	0	1,869,835
70	0	1	0	4	4	5	5	4	1	0	0	0	0	24
	0	31,348	0	203,575	264,853	281,844	293,321	349,537	51,097	0	0	0	0	1,475,575
74	0	0	0	0	0	1	2	1	0	0	0	0	0	4
	0	0	0	0	0	45,861	136,672	55,915	0	0	0	0	0	238,448
Total	2,096	4,047	2,248	1,681	1,690	1,018	774	397	51	10	0	0	0	14,012
	67,894,266	155,996,990	102,966,376	86,176,899	90,538,555	56,835,787	44,548,833	23,759,673	2,987,376	656,675	0	0	0	632,361,430

TABLE 6

Number and Annual Compensation of Female Policemen
By Fifth Age and Service Category
as of June 30, 2005

					Servi	ce							Т	otal
Age	1	5	10	15	20	25	30	35	40	45	50	55	59	
20	9	0	0	0	0	0	0	0	0	0	0	0	0	9
	153,135	0	0	0	0	0	0	0	0	0	0	0	0	153,135
25	43	24	0	0	0	0	0	0	0	0	0	0	0	67
	1,073,813	1,011,381	0	0	0	0	0	0	0	0	0	0	0	2,085,194
30	32	45	9	0	0	0	0	0	0	0	0	0	0	86
	910,389	1,962,962	467,054	0	0	0	0	0	0	0	0	0	0	3,340,405
35	25	39	25	4	0	0	0	0	0	0	0	0	0	93
	733,254	1,693,613	1,262,346	213,599	0	0	0	0	0	0	0	0	0	3,902,812
40	24	38	21	14	6	0	0	0	0	0	0	0	0	103
	611,129	1,595,296	1,047,371	801,229	351,285	0	0	0	0	0	0	0	0	4,406,310
45	42	32	9	7	14	5	0	0	0	0	0	0	0	109
	1,417,308	1,487,819	492,172	317,149	861,254	250,707	0	0	0	0	0	0	0	4,826,409
50	39	24	4	11	4	3	0	0	0	0	0	0	0	85
	1,256,070	1,070,648	171,297	500,669	237,042	177,669	0	0	0	0	0	0	0	3,413,395
55	18	18	3	7	2	3	0	0	0	0	0	0	0	51
	722,515	936,129	131,876	369,890	100,684	150,603	0	0	0	0	0	0	0	2,411,697
60	13	11	2	3	0	1	0	0	0	0	0	0	0	30
	492,758	501,161	109,477	170,311	0	49,280	0	0	0	0	0	0	0	1,322,987
63	1	0	0	0	0	1	0	0	0	0	0	0	0	2
	34,990	0	0	0	0	37,038	0	0	0	0	0	0	0	72,028
66	1	0	0	0	0	0	0	0	0	0	0	0	0	1
	43,021	0	0	0	0	0	0	0	0	0	0	0	0	43,021
70	1	0	0	0	0	0	0	0	0	0	0	0	0	1
	41,163	0	0	0	0	0	0	0	0	0	0	0	0	41,163
74	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	248	231	73	46	26	13	0	0	0	0	0	0	0	637
	7,489,545	10,259,009	3,681,593	2,372,847	1,550,265	665,297	0	0	0	0	0	0	0	26,018,556

TABLE 7

Number and Annual Compensation of Male Firemen
By Fifth Age and Service Category
as of June 30, 2005

					Serv	rice							Т	`otal
Age	1	5	10	15	20	25	30	35	40	45	50	55	59	
20	14	0	0	0	0	0	0	0	0	0	0	0	0	14
	433,169	0	0	0	0	0	0	0	0	0	0	0	0	433,169
25	47	53	0	0	0	0	0	0	0	0	0	0	0	100
	1,826,547	2,755,109	0	0	0	0	0	0	0	0	0	0	0	4,581,656
30	49	114	27	1	0	0	0	0	0	0	0	0	0	191
	1,787,342	5,806,447	1,581,441	74,838	0	0	0	0	0	0	0	0	0	9,250,068
35	49	126	81	42	5	0	0	0	0	0	0	0	0	303
	1,929,248	6,795,880	4,820,512	2,581,367	335,902	0	0	0	0	0	0	0	0	16,462,909
40	27	83	53	100	93	1	0	0	0	0	0	0	0	357
	971,604	4,314,705	3,038,489	5,992,358	6,237,478	67,060	0	0	0	0	0	0	0	20,621,694
45	21	36	21	56	96	54	7	0	0	0	0	0	0	291
	781,679	1,971,672	1,279,687	3,414,114	6,621,390	3,828,161	596,577	0	0	0	0	0	0	18,493,280
50	12	18	10	27	43	50	21	0	0	0	0	0	0	181
	586,160	933,429	616,980	1,638,505	2,830,552	3,611,166	1,497,535	0	0	0	0	0	0	11,714,327
55	7	4	6	9	13	19	21	6	0	0	0	0	0	85
	340,466	208,395	356,860	490,427	844,151	1,351,358	1,479,513	598,732	0	0	0	0	0	5,669,902
60	3	2	1	3	4	1	2	2	1	0	0	0	0	19
	123,011	83,226	65,322	198,078	262,830	65,236	166,906	195,500	73,624	0	0	0	0	1,233,733
63	3	1	1	0	0	0	2	0	0	0	0	0	0	7
	98,699	35,929	41,364	0	0	0	157,408	0	0	0	0	0	0	333,400
66	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	232	437	200	238	254	125	53	8	1	0	0	0	0	1,548
	8,877,925	22,904,792	11,800,655	14,389,687	17,132,303	8,922,981	3,897,939	794,232	73,624	0	0	0	0	88,794,138

TABLE 8

Number and Annual Compensation of Female Firefighters
By Fifth Age and Service Category
as of June 30, 2005

					Service								T	otal
Age	1	5	10	15	20	25	30	35	40	45	50	55	59	
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	3	2	0	0	0	0	0	0	0	0	0	0	0	5
	91,882	107,706	0	0	0	0	0	0	0	0	0	0	0	199,588
30	3	2	0	0	0	0	0	0	0	0	0	0	0	5
	82,934	92,193	0	0	0	0	0	0	0	0	0	0	0	175,127
35	2	5	2	1	0	0	0	0	0	0	0	0	0	10
	60,947	215,421	113,514	48,629	0	0	0	0	0	0	0	0	0	438,511
40	2	8	2	4	0	0	0	0	0	0	0	0	0	16
	35,109	368,674	154,831	226,119	0	0	0	0	0	0	0	0	0	784,733
45	3	1	2	3	0	0	0	0	0	0	0	0	0	9
	133,729	52,694	105,921	139,765	0	0	0	0	0	0	0	0	0	432,109
50	3	1	0	0	0	0	0	0	0	0	0	0	0	4
	124,510	21,375	0	0	0	0	0	0	0	0	0	0	0	145,885
55	1	0	0	0	0	0	0	0	0	0	0	0	0	1
	27,522	0	0	0	0	0	0	0	0	0	0	0	0	27,522
60	1	0	0	0	0	0	0	0	0	0	0	0	0	1
	31,828	0	0	0	0	0	0	0	0	0	0	0	0	31,828
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	18	19	6	8	0	0	0	0	0	0	0	0	0	51
	588,461	858,063	374,266	414,513	0	0	0	0	0	0	0	0	0	2,235,303

TABLE 9

# THE NUMBER AND ANNUAL ALLOWANCES OF RETIRED MEMBERS DISTRIBUTED BY FIFTH AGE AS OF JUNE 30, 2005

#### **EMPLOYEES**

AGE		ALES	FEMALES				
GROUP	NUMBER	AMOUNT	NUMBE	R AMOUNT			
		SERVICE RETI	REMENTS				
38-42			1	\$ 3,301			
43-47			5	29,348			
48-52	23	\$ 235,163	3 22	200,904			
53-57	132	1,844,812		1,677,395			
58-62	455	7,859,702	2 498	5,532,295			
63-67	763	10,760,190	975	8,826,763			
68-72	884	10,756,011	892	7,070,782			
73-77	758	8,736,773	728	5,383,514			
78-82	507	5,168,695	543	3,838,969			
83-87	284	2,541,113	339	1,870,635			
88-92	94	702,311	133	773,635			
93-97	20	159,592		254,528			
98-102	2	28,025		26,751			
TOTAL	3,922	\$ 48,792,387	4,330	\$ 35,488,820			
	D	ISABILITY RE	ΓIREMENTS				
20 22			2	¢ 22.042			
28-32	2	\$ 22,593	3 5	\$ 33,942			
33-37	3 12			50,571			
38-42 43-47	25	152,326 307,226		252,616 331,036			
48-52	48	592,872					
53-57	46 77	912,600		488,511 913,995			
58-62	81	1,065,081		936,421			
63-67	54	574,58		678,099			
68-72	32	322,881		301,846			
73-77	19	255,118					
		140,62		133,075			
78-82 83-87	8 4	36,909		53,328 77,415			
88-92	1	9,272		9,195			
93-97	1	9,212	1	9,193			
98-102			1	9,077			
TOTAL	364	\$ 4,392,086	385	\$ 4,278,338			

## TABLE 9

## CONTINUED

## THE NUMBER AND ANNUAL ALLOWANCES OF RETIRED MEMBERS DISTRIBUTED BY FIFTH AGE AS OF JUNE 30, 2005

#### **EMPLOYEES**

AGE	M	ALES	}	FEN	/IAL	AMOUNT 14,634				
GROUP	NUMBER	A	AMOUNT	NUMBER		AMOUNT				
	DENEEDO	LADI	a of bege	A GED MEMBERG						
	BENEFIC	IAKII	ES OF DECE	EASED MEMBERS						
23-27	4	\$	9,641							
28-32	1		12,511	2	\$	14,634				
33-37				1		5,229				
38-42	4		20,244	7		72,213				
43-47	6		8,268	16		81,579				
48-52	10		40,806	11		79,237				
53-57	14		101,743	40		320,368				
58-62	5		25,469	42		435,329				
63-67	14		65,285	65		674,310				
68-72	8		82,487	134		1,310,196				
73-77	16		121,528	166		1,711,971				
78-82	15		107,740	170		1,126,880				
83-87	6		20,541	128		836,893				
88-92	4		20,909	63		433,799				
93-97				16		143,145				
98-102				4		24,800				
TOTAL	107	\$	637,172	865	\$	7,270,583				

TABLE 10

# THE NUMBER AND ANNUAL ALLOWANCES OF RETIRED MEMBERS DISTRIBUTED BY FIFTH AGE AS OF JUNE 30, 2005

#### **TEACHERS**

AGE GROUP	MALES NUMBER AMOUNT			FE NUMBER	MAL	ES AMOUNT
	;	SERV	ICE RETIRE	MENTS		
43-47				1	\$	7,948
48-52	1	\$	14,129	12	·	101,235
53-57	79		1,623,920	162		2,687,426
58-62	450		10,646,051	743		14,108,037
63-67	458		11,027,408	852		15,852,380
68-72	347		8,071,317	644		11,595,684
73-77	232		5,292,018	425		7,231,462
78-82	114		2,113,963	303		4,624,298
83-87	62		885,669	265		3,328,648
88-92	22		260,210	156		1,535,643
93-97	8		96,428	111		1,102,642
98-102	1		3,810	21		154,049
TOTAL	1,774	\$ 4	40,034,923	3,695	\$	62,329,452
	D	ISABI	LITY RETIR	EMENTS		
38-42				1	\$	15,164
38-42 43-47				1	Ф	13,104
48-52	1	\$	11,041	12		175,358
53-57	8	φ	120,097	23		369,668
58-62	7		148,400	23		344,055
63-67	10		195,495	19		306,379
68-72	9		176,168	11		167,896
73-77	9		120,782	13		163,291
78-82	4		54,241	12		121,505
83-87	4		J+,241	7		78,228
88-92				3		31,267
93-97				2		19,355
TOTAL	48	\$	826,224	126	\$	1,792,166

## TABLE 10

## CONTINUED

## THE NUMBER AND ANNUAL ALLOWANCES OF RETIRED MEMBERS DISTRIBUTED BY FIFTH AGE AS OF JUNE 30, 2005

#### **TEACHERS**

AGE	MALES			FEM	FEMALES		
GROUP	NUMBER	A	AMOUNT	NUMBER		AMOUNT	
	DENEELC	LADII	ec of Dece	A CED MEMBERC			
	BENEFIC	IAKII	ES OF DECE.	ASED MEMBERS			
18-22				1	\$	12,207	
23-27	1	\$	3,006				
28-32	1		2,921	2		5,927	
33-37	1		7,037				
38-42	2		15,689	1		7,037	
43-47	4		33,217	1		30,489	
48-52	3		49,654	5		67,496	
53-57	5		26,332	15		203,014	
58-62	5		58,559	16		272,580	
63-67	6		41,961	29		499,609	
68-72	11		130,072	30		606,006	
73-77	8		138,545	34		800,425	
78-82	10		137,188	24		301,032	
83-87	4		48,562	23		235,492	
88-92	3		28,638	10		89,595	
93-97	1		2,582	3		42,009	
98-102				2		14,136	
TOTAL	65	\$	723,963	196	\$	3,187,054	

TABLE 11

# THE NUMBER AND ANNUAL ALLOWANCES OF RETIRED MEMBERS DISTRIBUTED BY FIFTH AGE AS OF JUNE 30, 2005

#### **POLICEMEN**

AGE	M	MALES		FEMALES
GROUP	NUMBER	AMOUNT	NUMBER	R AMOUNT
		CEDIMOE DETIN	NEMENTS	
		SERVICE RETIF	KEMEN 15	
38-42			2	\$ 6,193
43-47	60	\$ 2,215,561	15	266,854
48-52	197	7,441,459	34	582,382
53-57	247	9,363,826	35	634,618
58-62	250	8,599,897	40	550,111
63-67	211	6,143,544	30	415,934
68-72	137	3,287,882	23	363,723
73-77	110	2,399,226	10	118,917
78-82	37	1,001,209	7	110,677
83-87	33	699,130	4	53,909
88-92	6	87,530	2	16,944
93-97	3	47,864		
98-102	1	16,509		
TOTAL	1,292	\$ 41,303,637	202	\$ 3,120,262
	D	ISABILITY RET	IREMENTS	
	D	ISTIBILITY RET	IKEWE (15	
28-32	1	\$ 22,179		
33-37	2	55,175	1	\$ 6,688
38-42	19	555,894	1	32,387
43-47	23	680,463	2	54,786
48-52	41	1,300,760	6	185,331
53-57	46	1,387,051	8	206,797
58-62	53	1,384,730	7	155,075
63-67	35	856,446	2	33,311
68-72	16	378,663	1	11,443
73-77	18	368,720	1	20,367
78-82	5	64,585	1	20,307
83-87	6	83,714		
88-92	1	11,479		
93-97	1	11,227		
15 11	1	11,22/		
TOTAL	267	\$ 7,161,086	29	\$ 706,185

## TABLE 11

## CONTINUED

# THE NUMBER AND ANNUAL ALLOWANCES OF RETIRED MEMBERS DISTRIBUTED BY FIFTH AGE AS OF JUNE 30, 2005

#### **POLICEMEN**

AGE	M	MALES		FEN	FEMALE				
GROUP	NUMBER	A	MOUNT	NUMBER		AMOUNT			
BENEFICIARIES OF DECEASED MEMBERS									
18-22	1	\$	38,011	1	\$	30,493			
33-37									
38-42	1		34,641	1		14,751			
43-47				2		67,483			
48-52	3		82,131	14		297,914			
53-57	2		32,138	13		251,985			
58-62				15		417,074			
63-67	1		1,292	17		300,270			
68-72	5		49,549	41		629,980			
73-77	4		69,175	27		372,731			
78-82	3		25,922	37		404,416			
83-87	2		14,576	15		154,889			
88-92	2		17,312	14		184,441			
93-97				1		5,739			
98-102									
TOTAL	24	\$	364,747	198	\$	3,132,166			

TABLE 12

# THE NUMBER AND ANNUAL ALLOWANCES OF RETIRED MEMBERS DISTRIBUTED BY FIFTH AGE AS OF JUNE 30, 2005

#### **FIREMEN**

AGE GROUP	M NUMBER	MALES ER AMOUNT		FE NUMBER	MALE A	S MOUNT
	\$	SERVI	CE RETIREM	MENTS		
38-42				1	\$	4,101
43-47	12	\$	463,233	5		75,365
48-52	110	4	4,432,319	10		122,706
53-57	151	4	5,681,056	11		139,603
58-62	136	4	1,940,545	11		169,845
63-67	95	3	3,256,056	2		35,743
68-72	69	1	1,950,996	1		4,595
73-77	51	1	1,362,683	1		23,937
78-82	49	1	1,176,170			
83-87	20		423,371			
88-92	8		149,497			
93-97	1		18,283			
TOTAL	702	\$ 23	3,854,209	42	\$	575,895
	D	SABIL	ITY RETIRE	EMENTS		
28-32	1	\$	27,094			
33-37	1	Ψ	26,072			
38-42	4		132,424			
43-47	5		134,555	1	\$	38,296
48-52	16		498,556	1	Ψ	24,497
53-57	19		496,828	-		, . > .
58-62	18		432,850			
63-67	24		574,814			
68-72	14		367,081			
73-77	9		211,362			
78-82	6		134,242			
83-87	6		90,598			
88-92	2		28,216			
TOTAL	125	\$ 3	3,154,692	2	\$	62,793

TABLE 12

## CONTINUED

# THE NUMBER AND ANNUAL ALLOWANCES OF RETIRED MEMBERS DISTRIBUTED BY FIFTH AGE AS OF JUNE 30, 2005

#### **FIREMEN**

AGE	MALES			,	FEMALES		
GROUP	NUMBER	A	AMOUNT	NUMBER	₹ .	AMOUNT	
	RENEEL	TIADIE	S OF DECE	ASED MEMBE	DC		
	DLIVLIK		LS OF DECE	ASED WILMIDE	KS		
33-37	2	\$	24,520	1	\$	42,030	
38-42				3		60,025	
43-47				1		19,279	
48-52				6		114,067	
53-57	1		11,143	6		76,032	
58-62	1		11,858	12		302,362	
63-67	1		14,417	9		162,654	
68-72	3		43,345	21		419,639	
73-77	1		17,485	29		519,834	
78-82	5		71,929	35		540,220	
83-87	1		13,989	34		508,072	
88-92	2		9,556	11		126,853	
93-97	1		6,288	3		37,364	
98-102				1		12,595	
TOTAL	18	\$	224,530	172	\$	2,941,026	
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#### **TABLE 13**

# NEW HAMPSHIRE RETIREMENT SYSTEM Data Reconciliation

#### Actives

Active as of 6/30/2003 Retired Vested terminations Terminations without benefits New members Active as of 6/30/2005

Employees	Teachers	Policemen	Firemen	Total
26,371	18,710	4,305	1,524	50,910
1,331	770	200	85	2,386
75	100	11	0	186
4,685	2,239	753	116	7,793
6,134	2,873	1,232	276	10,515
26,414	18,474	4,573	1,599	51,060

## **Deferred Vesteds**

Deferred vested as of 6/30/2003 Rehired or retired or died New deferred vested Deferred vested as of 6/30/2005

Employees	Teachers	Policemen	Firemen	Total
312	300	23	4	639
101	101	5	1	208
75	100	11	-	186
286	299	29	3	617

#### **Pensioners**

Pensioners as of 6/30/2003 Died or rehired New retirements Pensioners as of 6/30/2005

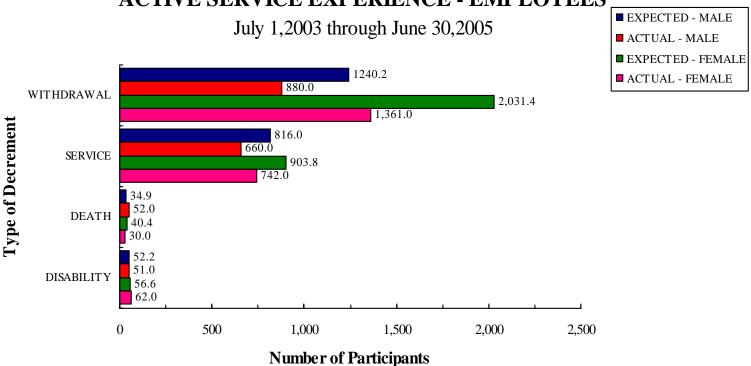
Employees	Teachers	Policemen	Firemen	Total
9,092	5,127	1,787	999	17,005
693	293	78	66	1,130
1,574	1,070	303	128	3,075
9,973	5,904	2,012	1,061	18,950

<sup>\*</sup> Excludes inactives.

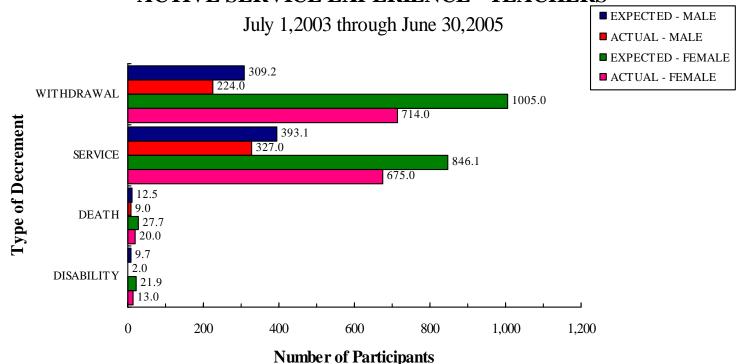
# SCHEDULE E

# **EXPERIENCE GRAPHS**

# **ACTIVE SERVICE EXPERIENCE - EMPLOYEES**

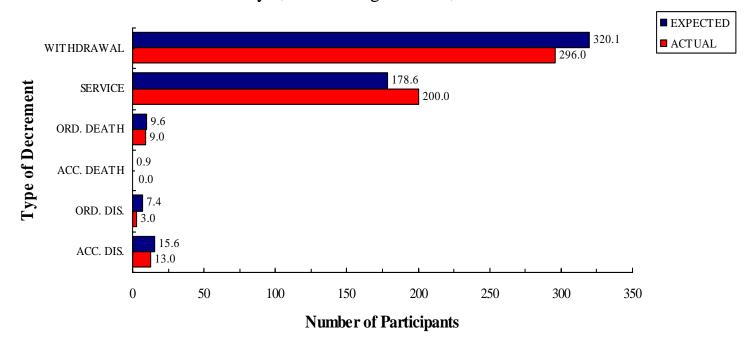






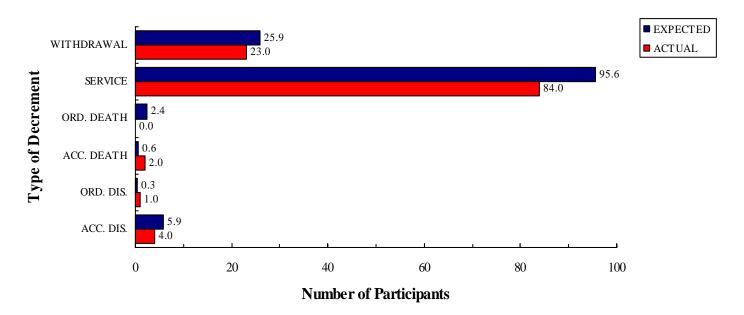
# **ACTIVE SERVICE EXPERIENCE - POLICEMEN**

July 1, 2003 through June 30, 2005



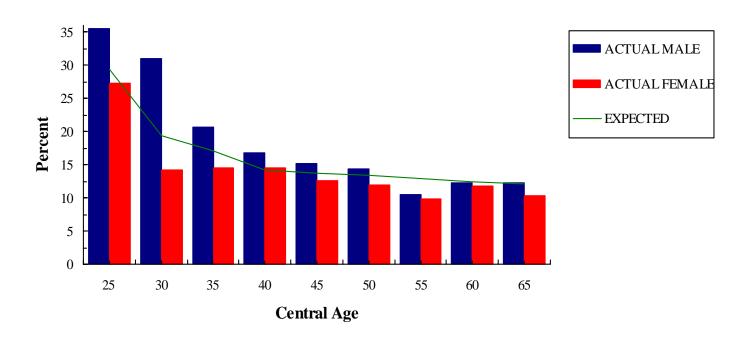
# **ACTIVE SERVICE EXPERIENCE - FIREMEN**

July 1, 2003 through June 30, 2005



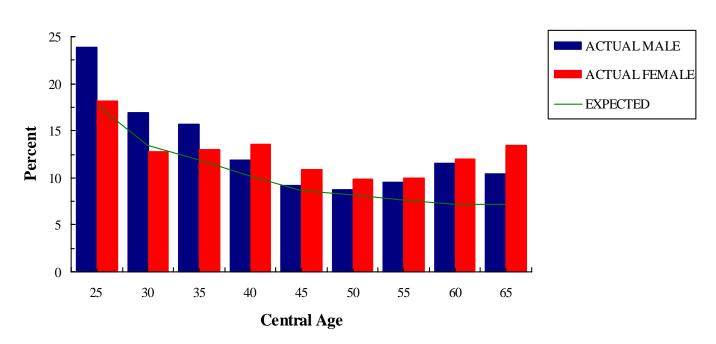
# **SALARY EXPERIENCE - EMPLOYEES**

July 1, 2003 through June 30, 2005



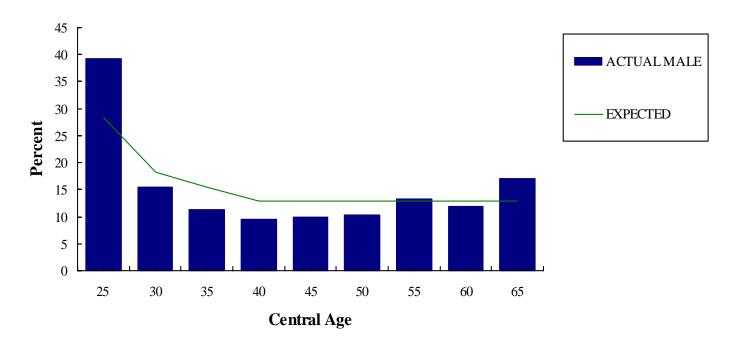
# **SALARY EXPERIENCE - TEACHERS**

July 1, 2003 through June 30, 2005



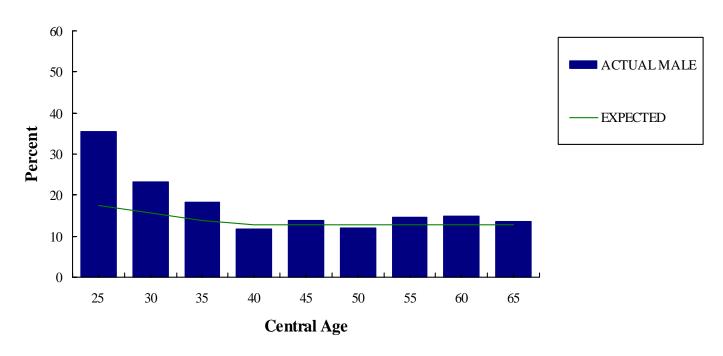
# **SALARY EXPERIENCE - POLICEMEN**

July 1, 2003 through June 30, 2005



# **SALARY EXPERIENCE - FIREMEN**

July 1, 2003 through June 30, 2005

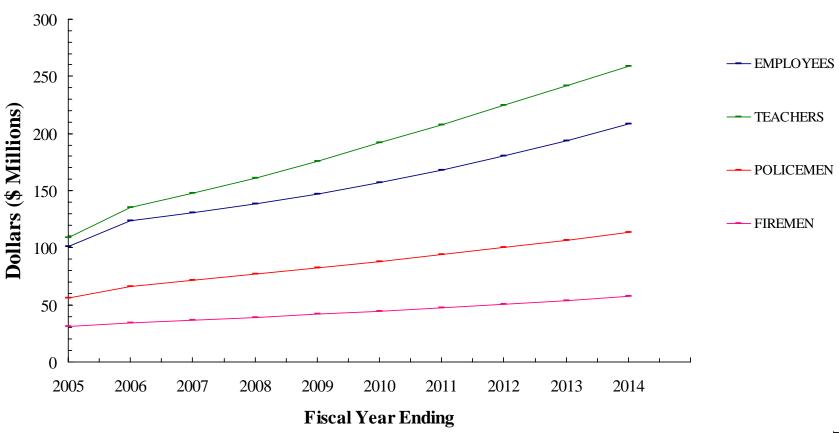


# SCHEDULE F

# PROJECTED BENEFIT PAYOUTS

# **NEW HAMPSHIRE RETIREMENT SYSTEM**

Projected Benefit Payouts for the Period July 1, 2005 through June 30, 2014



# SCHEDULE G

# DEVELOPMENT OF ASSET VALUES

# NEW HAMPSHIRE RETIREMENT SYSTEM Five Year Moving Market Value

Valuation Date (VD)	06/30/01	06/30/02	06/30/03	06/30/04	06/30/05
Market Value at VD	4,314,075,602	3,920,012,518	3,881,937,530	4,366,262,455	4,699,221,064
Contributions	167,119,978	191,207,739	202,608,360	247,440,183	274,213,697
Investment Income	122,866,514	121,002,963	106,113,082	96,824,208	102,183,013
Disbursements	230,165,486	263,699,251	287,855,235	316,280,152	349,107,570
Cash Flow	59,821,006	48,511,451	20,866,207	27,984,239	27,289,140
Units Acquired	155,743	140,377	67,198	91,488	79,891
Units Held	12,483,544	12,623,921	12,691,119	12,782,607	12,862,498
Unit Value	345.58	310.52	305.88	341.58	365.34
5 Year Average Unit Value	334.94	341.22	339.15	337.53	333.78
Preliminary Value	4,181,238,227	4,307,534,324	4,304,193,009	4,314,513,341	4,293,244,582
Book Value	4,073,812,303	3,927,435,336	3,732,589,158	4,045,431,104	4,290,270,685
Valuation Assets	4,181,238,227	4,307,534,324	4,304,193,009	4,314,513,341	4,293,244,582
Return on Valuation Assets					
Investment Increase	151,288,201	198,787,609	81,905,560	79,160,301	53,625,114
Return	3.72%	4.80%	1.92%	1.85%	1.25%
Actuarial Gain (Loss)	(235,066,076)	(194,646,200)	(323,356,325)	(327, 338, 542)	(353,925,752)
Excess Over Assumed	-5.78%	-4.70%	-7.58%	-7.65%	-8.25%

For 6/30/01, excludes receivable contributions of \$20,666,089.

For 6/30/02, excludes receivable contributions of \$16,463,086.

For 6/30/03, excludes receivable contributions of \$ 19,743,431.

For 6/30/04, excludes receivable contributions of \$25,023,742.

For 6/30/05, excludes receivable contributions of \$ 29,369,374.

# NEW HAMPSHIRE RETIREMENT SYSTEM VALUATION ASSETS AVAILABLE FOR PENSION BENEFITS AS OF JUNE 30, 2005

	]	<u>EMPLOYEES</u>	<b>TEACHERS</b>	]	<u>POLICEMEN</u>	<u>FIREMEN</u>	<u>TOTAL</u>
Allocated Valuation Assets	\$	1,308,895,215	\$ 1,675,294,050	\$	857,944,427	\$ 451,110,890 \$	4,293,244,582
- Special Account		89,544,458	111,459,505		39,012,389	38,279,399	278,295,751
- Medical Special Account		75,812,860	86,088,606		99,146,259	49,216,119	310,263,844
- 401(h) Actuarial Value of Assets		11,067,415	10,649,025		44,450,720	32,614,159	98,781,319
+ Receivable contribution		8,402,185	13,612,317		4,478,255	2,876,617	29,369,374
Net Assets Available for Pension Benefits	\$	1,140,872,667	\$ 1,480,709,231	\$	679,813,314	\$ 333,877,830 \$	3,635,273,042

#### NEW HAMPSHIRE RETIREMENT SYSTEM

# SPECIAL ACCOUNT RECONCILIATION AS OF JUNE 30, 2005 (IN MILLIONS)

Classification	Balance as of June 30, 2004	Interest	Asset Gain	Benefits Purchased*	Balance as of June 30, 2005
Employees					
State	\$ 57.7	\$ 0.7	\$ 0.0	\$ 5.1	\$ 53.3
Political Subdivision	38.5	0.5	0.0	2.8	36.2
Teachers	119.1	1.5	0.0	9.1	111.5
Policemen					
State	13.4	0.2	0.0	1.8	11.8
Political Subdivision	30.1	0.4	0.0	3.3	27.2
Firemen					
State	1.2	0.0	0.0	0.1	1.1
Political Subdivision	40.8	0.5	0.0	4.1	37.2
	\$ 300.8	\$ 3.8	\$ 0.0	\$ 26.3	\$ 278.3

<sup>\*</sup> Benefits purchased for legislation enacted on or before June 30, 2005 (in millions):

	Chapter 191ø
	July 1, 2005
Classification	COLA
Effective Date	7/1/2005
Employees	
State	\$ 5.1
Political Subdivision	2.8
Teachers	9.1
Policemen	
State	1.8
Political Subdivision	3.3
Firemen	
State	0.1
Political Subdivision	4.1
	\$ 26.3

ø Laws of 1993.